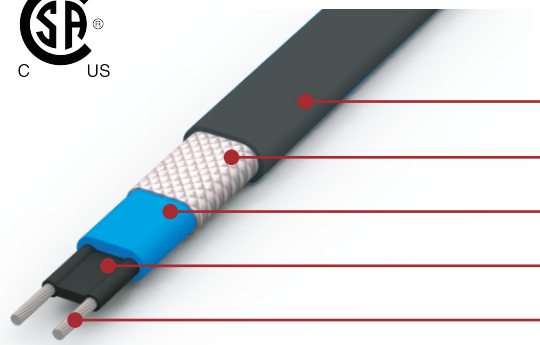


Roof and Gutter De-icing Self Regulating Heating Cable

The Problem

The ice dams form because melting snow runs from the roof into cold gutters and drain pipes. The ice forms a barrier and melted water accumulates behind this ice dam. Pooled water behind the dam may ingress into buildings, causing water damage, or climbing over the ice-filled gutter, forming dangerous icicles.



Cable Construction

- Outer jacket (With UV inhibitor)
- Tinned copper braid
- Radiation cross-linked polyolefin insulation
- Semi-conductive self-limiting matrix
- Bus wire

Ordering Information

Roof and Gutter De-icing Heating Cable
 Supply Voltage (1:110~120V; 2:208~240V)

RGS

The Solution

With E-POLY self-regulating heating cable, RGS systems provide a continuous drain path for melted ice and snow from the roof through the gutter to the downspout. The self-regulating characteristic means that the cable can adjust its heat output in accordance with the ambient condition. In snow and icy water, the heating cable operates at full power. As the snow melts and the water drains away, RGS self-regulates to half power while it dries. As it gets warmer, the power output will decrease to reduce energy consumption.

Easy to Install and Low Cost

RGS heating cable's parallel circuitry allows it to be cut to the exact length required, with no wasted cable. So it's not necessary to require field dimensions of the areas requiring protection. RGS is cut off the reel placed in the gutter and terminated in the field with ordinary hand tools.

Safe and Reliable

As self-regulation prevents overheating, RGS can even be installed in plastic gutters. 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 thus making it totally durable and reliable.

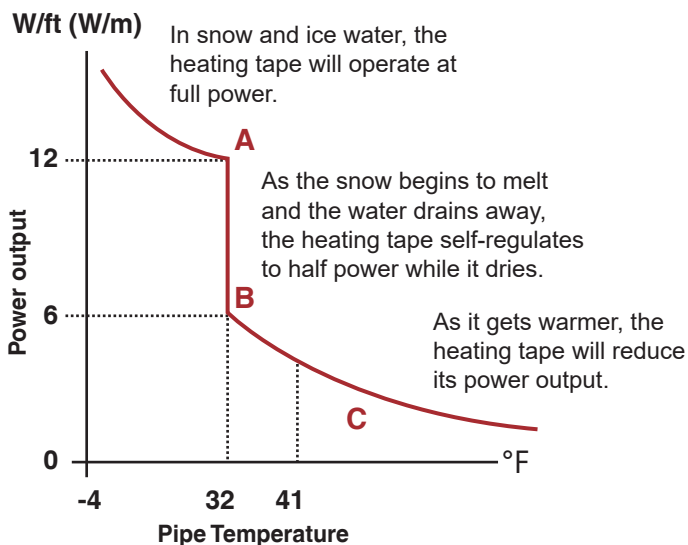
Characteristics

Bus Wires	16AWG nickel-plated copper wires
Metallic braid	Tinned copper
Outer Jacket	Thermoplastic elastomer
Supply Voltage	110 ~ 120V or 208 ~ 240V
Normal Power Output	In ice or snow at 32°F(0°C) 13 W/ft (40 W/m), in air at 32°F(0°C) 10 W/ft (30 W/m)
Circuit Protection	30mA ground-fault protection required
Minimum Bend Radius	1 in (25 mm) at -4°F (-20°C)

Temperature Rating		Weight and Dimension		
		Type	Dimensions	Weight
Maximum Exposure Temperature	185°F (85°C)	RGS1	0.52 x 0.24 in (13.3 x 6 mm)	11.0 Kg/100 m
Minimum Installation Temperature	-4°F (-20°C)	RGS2		

Maximum Cable Length (ft, m) vs. Circuit Breaker Size

Select Voltage				Maximum Circuit Length (ft, m) Per Circuit Breaker							
Product Model	Service Voltage (V)	Start-up Temp.		15A		20A		30A		40A	
		(°F)	(°C)	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)
RGS1	120	50	10	95	29	128	39	190	58	190	58
	120	32	0	32	28	118	36	174	53	190	58
	120	-4	-20	-4	23	95	29	148	45	190	58
RGS2	208	50	10	50	55	236	72	360	110	360	110
	208	32	0	32	52	223	68	338	103	360	110
	208	-4	-20	-4	42	184	56	275	84	360	110
RGS2	240	50	10	50	58	252	77	380	116	380	116
	240	32	0	32	55	236	72	350	107	380	116
	240	-4	-20	-4	45	193	59	288	88	380	116



Accessories

E-POLY supplies a complete range of accessories including power connection (EZK-RPC) / termination (EZK-PT) /splice kits (EZK-S) and end seals (EZK-ES). These items are recommended for the correct operation of RGS products.

Further Information

Please consult the appropriate termination instructions and the E-POLY Installation, Testing and Maintenance Manual for further details.