

## DESCRIPTION

A THERMA-ROOF (BGDC) system can help prevent ice dams and icicles by maintaining a continuous path for melt water to drain from the roof. As long as a heated path from the roof to a safe discharge area is maintained, ice dams will not form. The system can be used on roofs and valleys and in downspouts and gutters made from many types of standard roofing materials, including metal, plastic, asphalt and fiberglass shingles.

The THERMA-ROOF (BGDC) heating cable is laid in a “zigzag” fashion along the lower edge of the sloping roof. The heater should extend at least 30cm/12in above the level of the outer building wall, or 15cm/6in above the snow fence, whichever is the higher, and extend down into the gutter. This will ensure a continuous run off path for melted water.



## FEATURES

- Eliminate ice and prevent roof damage
- Melt snow and maintain melt water flow into gutter
- Easy to connect, pre-assembled plug-in cable
- High flexibility for roof installation with a wide variety of lengths available

## APPROVALS



**THERMA-ROOF™**  
Plug-in Heating Cable for Roof & Gutters

## TECHNICAL

VOLTAGE:	120 Volts
CABLE TYPE:	Series Resistance
USAGE:	WS - Wet Test and Weather Resistance
MIN. BENDING RADIUS:	12mm (0.3")
INSTALLATION TEMP:	Minimum installation temperature: 0°F/-18°C
OPERATING TEMP:	Max. operating temperature: ??

## INSTALLATION

Refer to the THERMA-ROOF BGPC1 installation manual for complete installation instructions. Electrical connection of the heating system and thermostat should be done only by a qualified electrician.

## WARRANTY

Warranted free from manufacturers defect for 5 years.  
Visit [www.britech.ca](http://www.britech.ca) for Limited Warranty details.

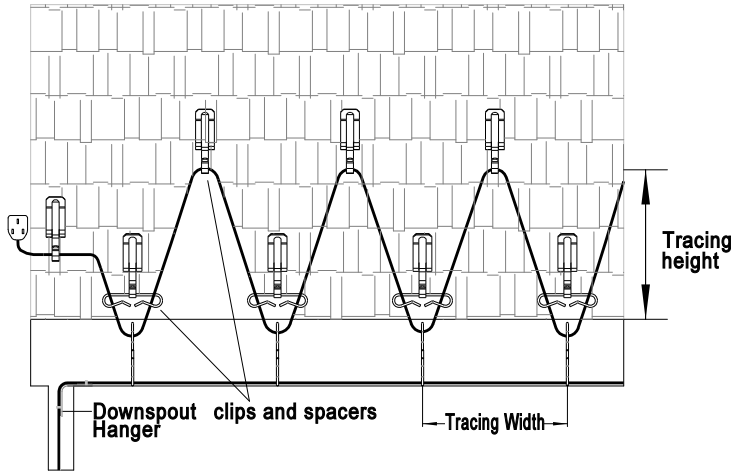
## CABLE SELECTION, CONTROLS & ACCESSORIES

Please refer to Britech catalogue for production selection or contact Britech at 1-877-335-7790 for assistance.



An accurate estimate of the cable length you need is very important because you cannot change the cable length by cutting, splicing or altering it in any way. When calculating cable length, there should be a minimum of 2 inches between the bottom of the drop loop and the bottom of the gutter

The cable must extend above the overhang into the section of the roof above the heated section of the house. Also in order to make a continuous path for the melted water, extend the heating cable all the way down to the gutter.



Front view of roof with Icestop system

Overhang distance (inch/cm)	Tracing Width (inch/cm)	Tracing Height (inch/cm)	With gutter Multiplier (A)	Without gutter Multiplier (A)
No overhang	15/38	22/56	3.9	3
12/30	15/38	22/56	3.9	3
24/61	15/38	33/84	5.3	4.5
36/91	15/38	44/112	6.8	6
48/122	15/38	55/140	8.2	7.4
60/152	15/38	66/168	9.7	8.9
72/183	15/38	77/196	11.1	10.3

(B): Total length of roof edge

**Cable Length required for roofline area:** Multiply (A) and (B) to determine the length of heating cable required for roofing.

## SELECTION CHART

## THERMA-ROOF™

PRODUCT REF. CODE	POWER (WATTS)	LOAD (AMPS)	LENGTH (FT)	LENGTH (M)
BGDC1-1A020	100	0.8	20	6.1
BGDC1-1A030	150	1.3	30	9.1
BGDC1-1A060	300	2.5	60	18.3
BGDC1-1A080	400	3.3	80	24.4
BGDC1-1A100	500	4.2	100	30.5
BGDC1-1A120	600	5.0	120	36.6
BGDC1-1A140	700	5.8	140	42.7
BGDC1-1A160	800	6.7	160	48.8
BGDC1-1A180	900	7.5	180	54.9
BGDC1-1A200	1000	8.3	200	61.0
BGDC1-1A240	1200	10.0	240	73.2