

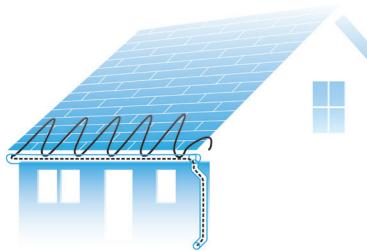
ProtecTHERM

Roof and gutter de-icing



Advantages of ProtecTHERM cables

- Cables resistant to damage caused by UV rays
- Easy to install, sturdy and flexible
- Available in preassembled format (120V cable has a plug and pilot lamp, 240V cable requires a power connection in a junction box)
- Also available in bulk and "cut to order" format for more flexibility
- Self-regulating: they produce more heat only when needed
- Suitable for various types of roofing
- Complete line of accessories and components available for the installation and power connection, when needed
- Require no maintenance
- Three year limited warranty



The right length

Before installing a ProtecTHERM heating cable on a roof, it is important to determine the length of cable required.

The ultimate roof and gutter protection

Prevent any roof damage by installing a ProtecTHERM heating cable. Sturdy and flexible, they are perfectly adapted to take on winter's snow and ice.



Preassembled cable

To determine the length of preassembled cable, you must:

Multiply the roof edge length (ft) x the multiplier (see the Multipliers Table below)

- | + Roof edge length (extension*) (ft) x 0.5
- | + Total gutter length (ft)
- | + Total downspout length (ft) (+ 1 additional foot)

Total = Length of preassembled cable required

For all the details on calculating the length of cable needed and on installing a preassembled cable, consult our Installation Guide.

Bulk or cut to order cable

Since the bulk and cut to order cable requires a power connection with appropriate components, it is important to make sure you have the right cable length for the installation.

To determine the length of bulk or cut to order cable, you must:

Multiply the roof edge length (ft) x the multiplier (see the Multipliers Table below)

- | + Roof edge length (extension*) (ft) x 0.5
- | + Total gutter length (ft)
- | + Total downspout length (ft) (+ 1 additional foot)
 - | + 1 ft for each power connection
 - | + 2 ft for each splice connection
 - | + 3 ft for each tee connection
 - | + 0.5 ft for each end seal

Total = Length of bulk or cut to order cable required

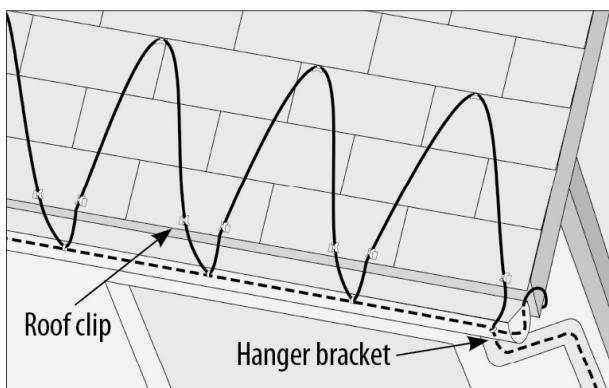
For all the details on calculating the length of cable needed and on installing a bulk or cut to order cable, consult our Design Guide.



Note:

1. If the downspout is in the middle of the run, double the length of cable required for the downspout (add to the previous total).
2. For valleys, run the heating cable 2/3 up and down the valley (add to the previous total).

Standard roof



Metal roof

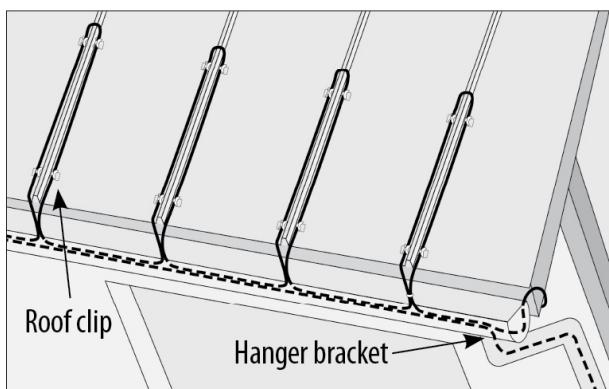


Table - Multipliers

Roof overhang	Feet of heating cable per foot of roof edge (multipliers)				Cable loop height	
	Standard roof	Metal roof (18" seam)	Metal roof (24" seam)	Standard roof	Metal roof	
None	2	2.5	2.0	18 in	18 in	
12 in	2	2.8	2.4	18 in	24 in	
24 in	3	3.6	2.9	30 in	36 in	
36 in	4	4.3	3.6	42 in	48 in	

*The roof extension is where the heating cable on the roof extends over the edge of the roof all the way down to meet the heating cable installed in the gutter..