

Ice Shield: DIY Roof and Gutter Deicing Kit — Quick Installation Checklist

A step-by-step installation and safety checklist for homeowners and contractors installing WarmlyYours pre-assembled constant wattage roof and gutter deicing kits (ETC120-5W Series). Follow each item in sequence before mounting cable, routing through gutters, or plugging into power.

Preparation

Before climbing onto the roof or opening clips, calculate your total required cable length, inspect the kit, test heating operation, and verify your electrical outlet. The following checklist covers every required verification from site assessment through layout marking.

- 1

Measure & Calculate Cable Length
 Measure total roof edge footage and gutter length, then provide these measurements to us. Receive a free SmartPlan within one business day — we'll handle all the calculations and design work for you. **Constant wattage cable CANNOT be cut, shortened, or spliced.**
- 2

Verify Electrical Outlet & GFCI Protection
 Verify an outdoor 120V grounded electrical receptacle is located within 6 ft of the cable starting point on the roof/gutter. Confirm the receptacle has GFCI protection and an in-use weatherproof "while-in-use" cover. Verify total kit amperage draw does not exceed circuit capacity (e.g., 20' = 0.83A, 100' = 4.17A, 240' = 10.0A). **Do NOT use extension cords.**
- 3

Uncoil & Pre-Test Cable
 Completely uncoil the heating cable on a flat surface so that **no sections touch, cross over, or overlap**. Plug the cable into a 120V outlet for approximately 5 minutes. Feel along the length to verify it warms up evenly. Unplug immediately after testing and allow cable to cool before handling.
- 4

Inspect Kit Components & Gather Tools
 Confirm all kit contents are present and undamaged: pre-assembled ETC heating cable with 6-ft cold lead & grounded plug, shingle clips, and cable spacers. Gather additional tools: tape measure, putty knife, chalk, ladder, and filing tool/pliers.
- 5

Clean Roof, Valleys, Gutters & Downspouts
 Thoroughly remove leaves, pine needles, dirt, seeds, and combustible debris from roof edges, valleys, gutters, and downspouts. Remove any old clips or failed heating cables. Inspect gutters and downspout entries for sharp metal burrs or protruding screws; **file down or bend smooth** to avoid puncturing the cable jacket.
- 6

Mark Pattern Layout with Chalk
 Mark a **15" wide triangle base** along the roof edge for each section. Mark the top peak of each triangle extending at least 1 shingle row (5.5") past the interior warm wall line into the heated roof area. Mark valley runs (minimum 3 ft up the valley) and dormer paths.

⚠ NEVER cut, splice, or alter the cable — shortening reduces resistance and causes burnout, fire, or shock hazard. **NEVER allow cable to overlap or touch itself** — constant wattage cable will overheat and fail at any point of direct contact. **NEVER install inside a building** — do not run cable through walls, ceilings, attics, soffits, or interior downspouts. **Seasonal operation:** Turn off or unplug cable when ambient temperatures rise above **40°F (4°C)** or when roof snow/ice has melted.