

TRM SR-ACC- Roof and Gutter Downspout Hanger

Installation Instruction Manual

Product Description:

TRM Downspout Hangers are utilized to safely transition heating cables from gutters into downspouts or around sharp edges where cables may become damaged at these critical junctures. Downspout hangers can also be utilized to hold down and space apart the cables in wide gutters where multiple runs of cable are required.

Heating cables are to be affixed to downspout hangers with UV rated zip ties. Downspout hangers are not required to be affixed directly to the roof or gutter.

Kit Contents:

A:



B:



| <u>Item</u> | <u>Quantity</u> | <u>Description</u> |
|-------------|-----------------|--------------------|
| A | 1 | Downspout Hanger |
| B | 2 | UV Rated Zip Ties |

Tools Required for installation:

- Pliers (or hands) to bend hanger
- Snips to trim zip tie
- Appropriate Fall Arrest Equipment when working at heights

WARNING:

Electric Shock Hazard. You **MUST** disconnect all power before installing or servicing heating cable and accessories. A qualified electrician must perform installation and servicing of heating cables and accessories. Heating cables must be grounded in accordance with your local electrical codes. Failure to comply with this code can result in personal injury or property damage.

Product Certifications:

To be utilized in conjunction with TRM SR cables and accessories in order to provide a fully CSA approved system



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Prior to installing your downspout hangers, it is imperative to determine what your heating cable layout will be so that you can identify potential hazards and cable transition areas where downspout hangers are required. Creating a layout drawing can help you plan hanger placement location and properly calculate the quantity of hangers required.

Calculating the number of downspout hangers needed:

- One downspout hanger is needed at each location where the cable will enter or exit the top of a downspout (1 hanger for a single run of cable or two hangers for a double loop of heating cable in each downspout)
- One downspout hanger is required for each location where there is the potential for abrasion or damage.

Examples:

- Where the heating cable transitions from the roof edge to the gutter.
- Where a heating cable is being routed from a rooftop towards a remote junction box location.
- If downspout hangers are being utilized to space and hold down cables in a gutter, one hanger should be utilized for each 5' of loose cable (one hanger can be used for 2 runs of cable)

Once all hanger locations have been identified, clean and prepare the area around where the hanger is being installed.

Install the heating cable using the planned layout drawing. Where ever the heating cable transitions between the gutter and the downspout (or a location where abrasion may occur) bend the hanger to the desired shape and zip tie the heating cable to the hanger.

Cut off the excess portion of the zip tie once the cable has been fastened.

Once the cable has been adjusted to its final position, inspect the cable routing and add hangers anywhere an abrasive/ shearing force may occur or if more cable support is needed.

Important Note 1:

The cables could come loose and fall off of the roof:

- If cables are not affixed to anything in gutters
- If cables are not properly fastened to your roof and/or gutter

Important Note 2:

If downspout hanger brackets are not utilized properly where cables transition into a downspout or are run across junctures with sharp edges, your cable may be exposed to physical conditions that may cause your cable to fail prematurely.

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Figure 1: Determine the layout of your heating cables and plan out locations where you will be installing your downspout hangers based on where gutters are located, where abrasive transitions are located and/or where cables are to be held down in a gutter

Figure 2: Clean and prepare the area around where you will be installing the downspout hanger and heating cable



Figure 3: Bend the bracket at approximately a 90 degree angle, being careful not to create a sharp bend in the hanger that could potentially cause damage to the heating cable.

Figure 4: Feed your cable carefully through the gutter or over the juncture where the downspout hanger will be utilized



Figure 5.1: Position the hanger where it is required and affix cables to the bracket by tightening UV rated zip ties through the pre-drilled holes and around the heating cable

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Figure 5.2: Position the hanger where it is required and affix cables to the bracket by tightening UV rated zip ties through the pre-drilled holes and around the heating cable

Figure 6: Make sure that the bracket and cable are both properly centered so that the cable is completely protected against potential abrasion or damage



Figure 7: Cut off any excess zip tie and ensure bracket is in the proper completed position

Figure 8: Upon completion of installation have your certified electrician test your heating cable.



Figure 9: Tie into the junction box ensuring the cable is terminated with a drip loop to prevent water run off migrating into the junction box. Connect the Heating cables to the control or GFEP protected circuit.

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