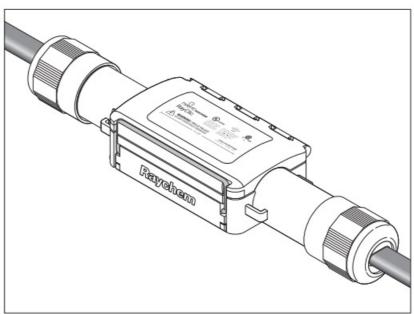


nVent RAYCHEM Self Regulating and power limiting Heating Cable System Installation Guide

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Self-regulating and power limiting heating cable systems Installation and maintenance manual



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APPROVALS

CUL US LISTED	718K Pipe Heating Cable
UL	877Z De-Icing and Snow Melting Not UL Listed with XL-Trace Edge heating cable for buried piping
FM	For HWAT and IceStop only Hazardous Locations: For IceStop (GM-XT) only Class I, Div. 2, Groups A, B, C, D

DESCRIPTION

nVent RAYCHEM RayClic-PC Power Connection and End Seal Kit

nVent RAYCHEM RayClic-PS Powered Splice and End Seal Kit

nVent RAYCHEM RayClic-PT Powered Tee and End Seal Kit

These kits are for use with nVent RAYCHEM IceStop,

XL-Trace Edge and HWAT heating cables. The connection is designed to be strapped to the pipe or mounted on the wall at the start of the heating cable circuit. These installation instructions should be used in conjunction with the IceStop, XL-Trace Edge, and HWAT System Installation and Operation Manuals. For technical support, contact your nVent representative or call nVent (800) 545-6258.

TOOLS REQUIRED

TORX T20 screwdriver	Utility knife
Wire cutters	

OPTIONAL ACCESSORIES (NOT INCLUDED IN THIS KIT)



- nVent RAYCHEM RayClic-SB-02 Wall mounting bracket
- us nVent RAYCHEM RayClic-SB-04 Pipe mounting bracket

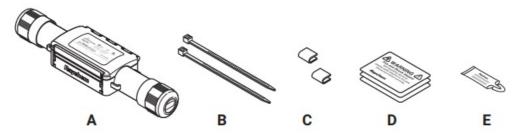


This component is an electrical device that must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all the installation instructions.

- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of nVent, agency certifications, and national electrical codes, ground fault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.
- Bus wires will short if they contact each other. Keep bus wires separated.
- Keep components and heating cable ends dry before and during installation.
- The black heating cable core is conductive and can short. It must be properly insulated and kept dry.
- Component approvals and performance are based on the use of nVent-specified parts only. Do not use substitute parts or vinyl electrical tape.
- Leave these instructions with the end user for reference and future use.

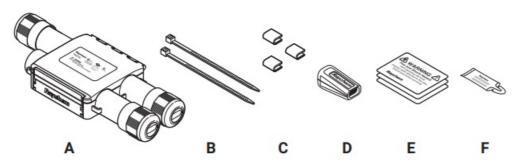
KIT CONTENTS

RAYCLIC-S SPLICE KIT



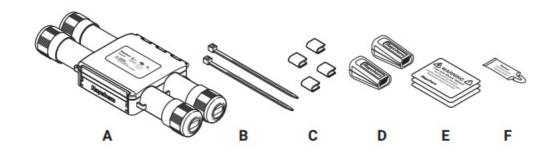
Item	Qty	Description
Α	1	Splice
В	2	Plastic cable ties
С	2	Clips
D	3	Labels (1 splice, 2 warning)
Е	1	Cable lubricant

RAYCLIC-T TEE KIT



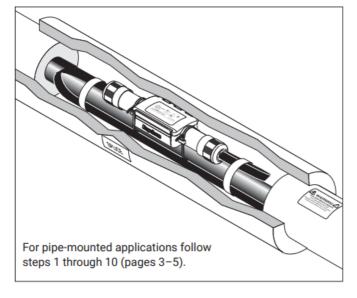
Item	Qty	Description	
Α	1	Tee	
В	2	Plastic cable ties	
С	3	Clips	
D	1	End seal	
Е	3	Labels (1 splice, 2 warning)	
F	1	Cable lubricant	

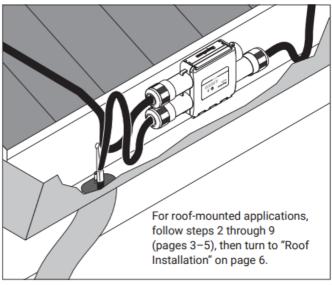
RAYCLIC-X CROSS KIT



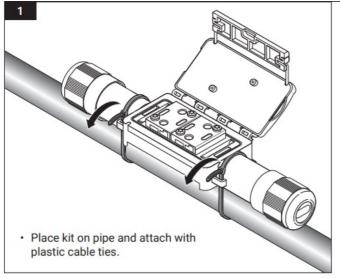
Item	Qty	Description	
А	1	Cross	
В	2	Plastic cable ties	
С	4	Clips	
D	2	End seals	
E	3	Labels (1 splice, 2 warning)	
F	1	Cable lubricant	

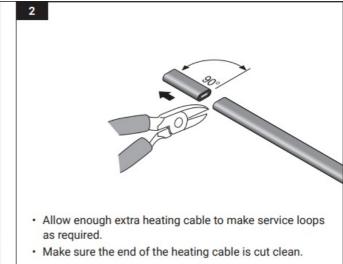
If you experience difficulty during installation, refer to the "Troubleshooting Guide" on page 8.

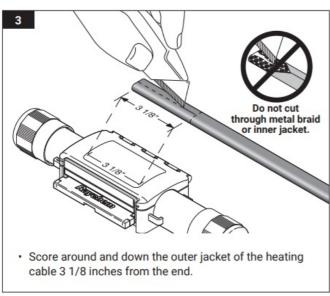


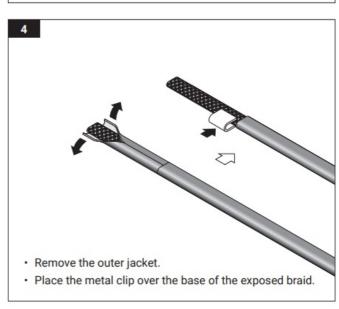


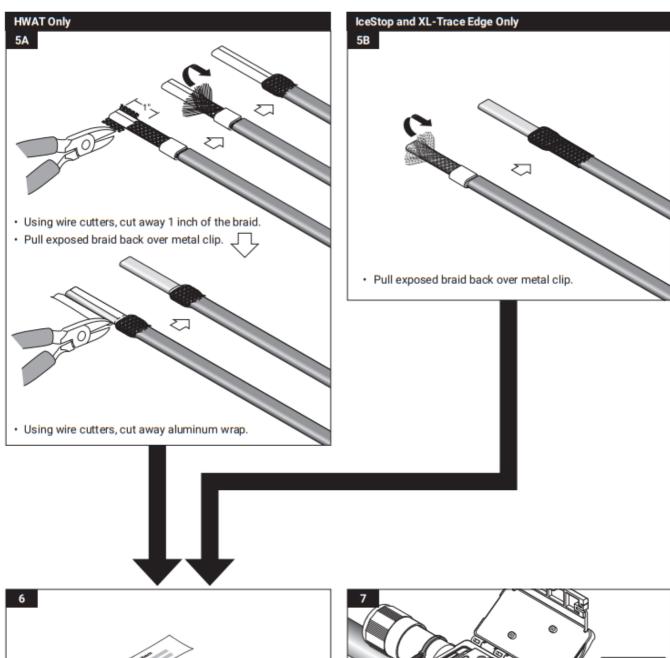
Splice, Tee, and Cross Installation

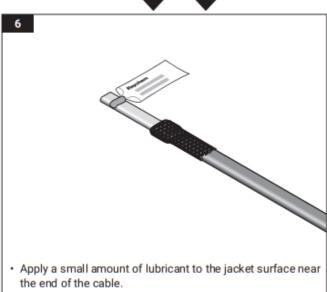




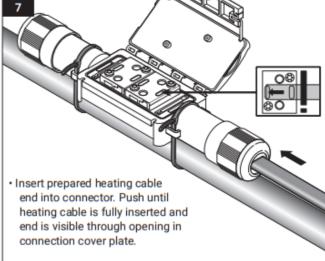




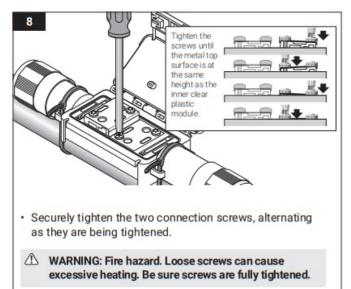


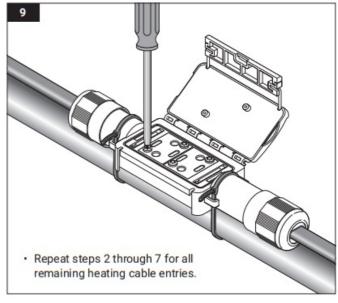


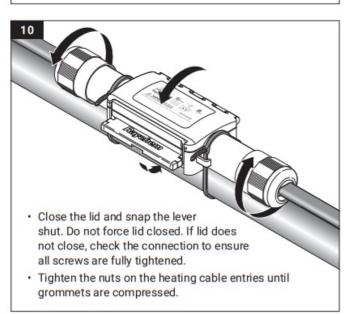
 Avoid using large amounts of lubricant on the exposed end of the cable.

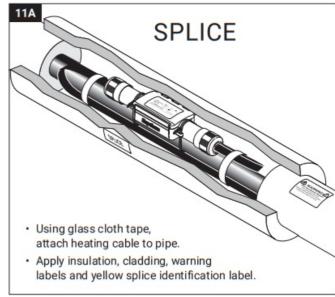


Note: Heating cable cannot be removed. The connection and end seal are designed to be installed only once; the heating cable cannot be removed once installed.

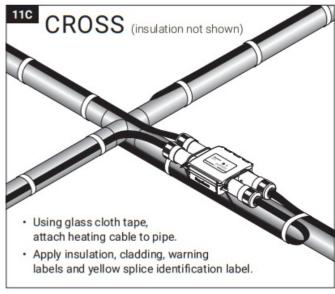




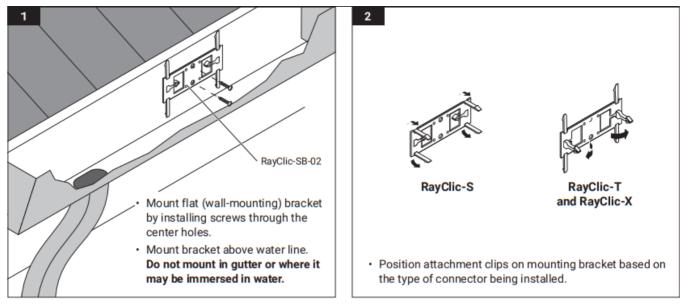


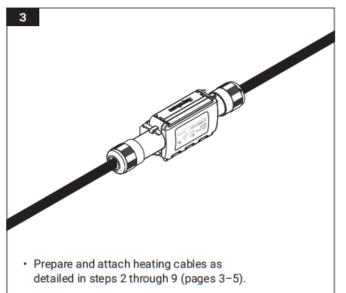


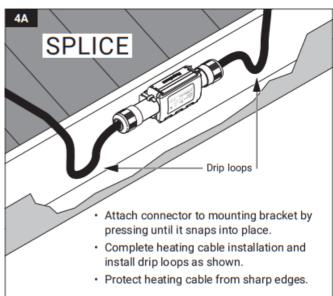


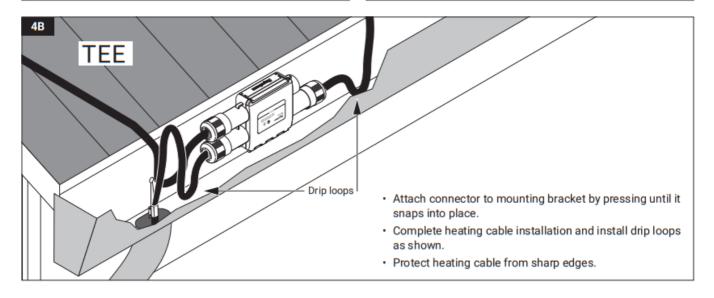


Roof Installation

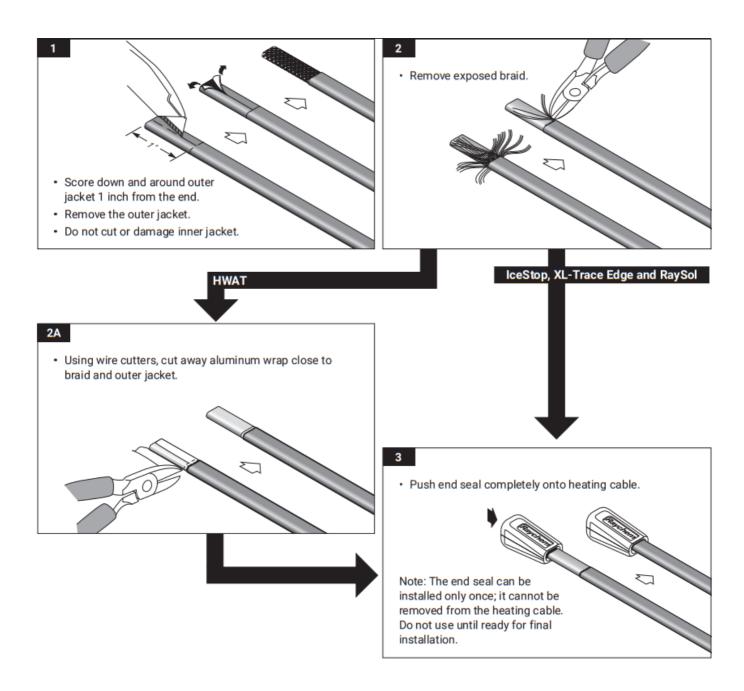








End Seal Installation



Troubleshooting Guide

PROBLEM	SOLUTION
Braid clips are missing.	The braid clips are attached to the cardboard packing insert under the lid. The braid clips must be used to ensure a ground connection. If clips are missing or lost, call nVent at (800) 545-6258.
The mounting bracket is missi ng.	A mounting bracket is not included in the splice, tee, and cross kits. One can be ordered using one of the catalog numbers listed under "Optional Accessories" on the front page of these instructions when you place your order.
The connector does not snap onto the bracket.	The bracket has two sets of attachment clips. Fold up the four outer clips for the splice kit. Fold up only the center clips for the tee and cross kits.
Heating cable type not mentio ned.	nVent RAYCHEM RayClic connection kits are approved for use only with HWA T, XL-Trace Edge, and IceStop heating cables. Do not use it with other heating cables.
The braid clip does not fit.	Be sure the clip is installed on the metal braid, not on the outer jacket.
The heating cable does not ha ve an aluminum wrap.	Only HWAT heating cables have the aluminum wrap under the braid. Skip the a luminum wrap removal step for XL-Trace Edge and IceStop heating cables.
The heating cable cannot be inserted into the connector.	Check for the following: • Apply cable lubricant to the heating cable primary (white) jacket. • Outer jacket strip length is 31/8 inches. • Braid clip is installed on top of the metal braid, not on the outer jacket. • Braid is pulled back over braid clip. • For HWAT, 1 inch of braid is removed. • Sealing nut is loose (but not removed). • Connection screws are loose.
The lid does not close.	Be sure all screws are fully tightened before closing the lid.
The heating cable cannot be inserted into the end seal.	The outer jacket must be removed from the heating cable before the end seal is sinstalled (see the Ind Seal Installation instructions on page 7). Make sure 1 in chof the outer jacket, braid, and aluminum wrap (HWAT only) are removed.
The heating cable cannot be r emoved.	The connection and end seal are designed to be installed only once; the heatin g cable cannot be removed once installed. Additional nVent RAYCHEM RayClic -E end seals can be ordered from nVent.

Heating Cable Circuit Testing

The RayClic-T now includes test ports in the blank module.

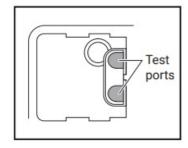
Voltage can be measured at these points to confirm the continuity of power to the installed heating cable circuit. For detailed heating, and cable operation refer to the appropriate installation and operating manual.

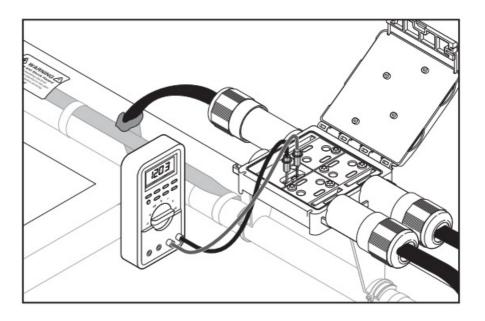
Instructions:

- 1. Open the RayClic cover.
- 2. Set multimeter to AC voltage function.
- 3. Insert multimeter test probes into the two test ports.



measuring voltage.





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> nVent reserves the right to change specifications without notice. RAYCHEM-IM-H55092-RayClicConnectionSystem-EN-2111

nVent.com/RAYCHEM

Documents / Resources



nVent RAYCHEM Self Regulating and power limiting Heating Cable System [pdf] Installatio n Guide

RAYCHEM Self Regulating and power limiting Heating Cable System, RAYCHEM, Self Regulati ng and power limiting Heating Cable System, Heating Cable System

References

• * Electrical Heat Tracing | Heat Tracing | nVent RAYCHEM

Manuals+, home privacy