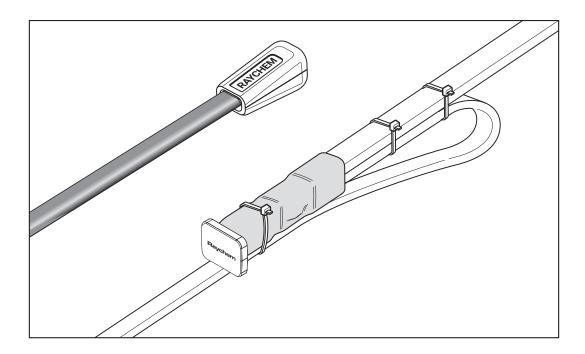
Raychem

H910

WinterGard Splice and Tee Kit with End Seal Installation Instructions



APPROVALS



718K Pipe Heating System 877Z De-Icing and Snow Melting Equipment -WS for Canada

KIT CONTENTS

Item	Qty	Description
Α	2	Insulated bus wire crimps
В	1	Uninsulated braid crimp
С	3	Cable ties
D	8	Mastic strips
E	1	End plug
F	1	Heat-shrinkable tube (5 inch long, 1.5 inch diameter)
G	2	Black cloth tapes (6 inch long)
Н	1	Clamp tie
I	1	End seal

DESCRIPTION

The Raychem WinterGard H910 Splice and Tee Kit is for use with WinterGard self-regulating heating cables to make splice, tee, and end seal connections. The kit contains materials for one splice and one end seal, or one tee connection and one end seal. This kit does not provide a power connection; use an Raychem H900 or H908 power connection kit for a complete installation.

APPLICATIONS

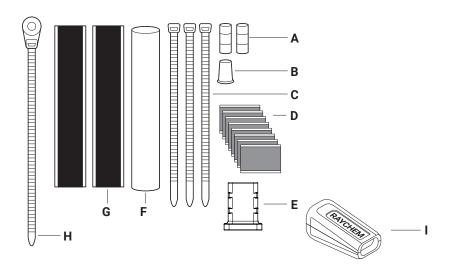
Use the H910 kit with the following Raychem WinterGard heating cables: H311, H611, H612, H621, and H622. All are designed for pipe freeze protection in dry locations, but H612 and H622 cables are designed for both wet and dry areas, as well as for roof and gutter de-icing. The cable type is printed on the outer jacket of the cable.

TOOLS REQUIRED

- Diagonal cutters
- Needle nose pliers
- · Utility knife
- · Heat gun or torch
- Crimp tools (Ideal 30-429 and T&B WT112M or WT2000)
- Hammer and nail (for gutter/downspout applications only)

INSTALLATION AND SUPPORT

The minimum installation temperature for this kit is 0°F (-18°C). See the WinterGard Application and Design Guide (H53585), H900, or H908 installation instructions for design information. For additional technical support call Chemelex at (800) 545-6258.



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 Chemelex, agency certifications, and national electrical codes, ground-fault equipment protection must be used. Arcing may not be stopped by conventional circuit
- 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 Chemelex-specified parts only. Do not use substitute parts or vinyl electrical tape.
- Leave these instructions with end user for reference and future use.

HEALTH HAZARD: Overheating heat-shrinkable tubes will produce fumes that may cause irritation. Use adequate ventilation and avoid charring or burning. Consult SDS at Chemelex.com for further information.

CHEMTREC 24-hour emergency telephone: (800) 424-9300

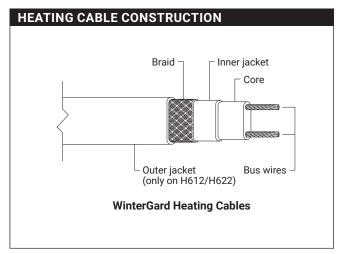
Non-emergency health and safety information: (800) 545-6258

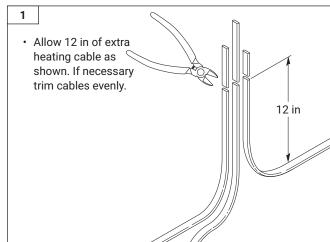


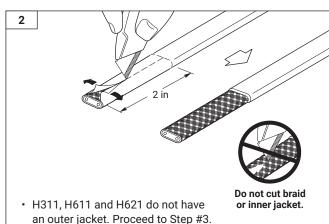


Splice or Tee Connections

The instructions are shown for a tee connection. Splice connections are done the same way, without the third heating cable section.



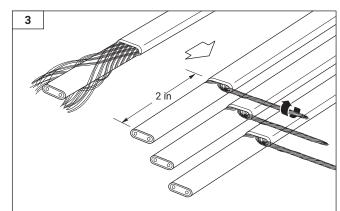




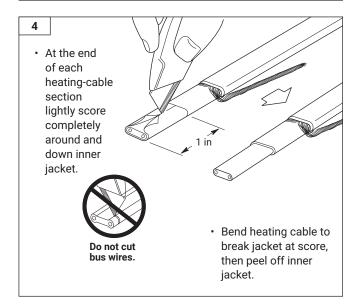
· Lightly score completely around and

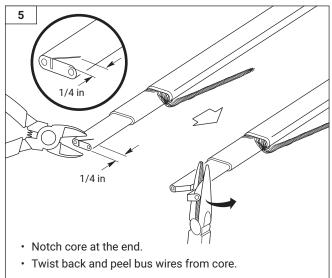
· Bend heating cable to break jacket at score then peel off outer jacket.

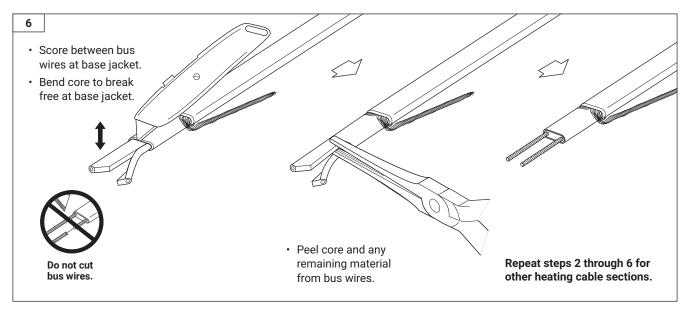
then down outer jacket.

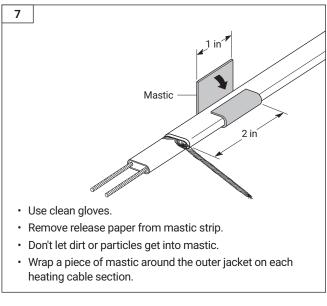


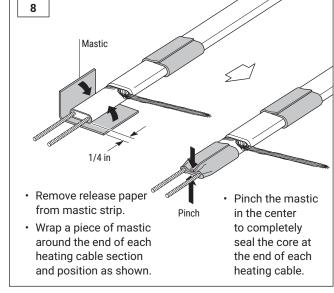
- For H612 and H622, unravel the braid back to the outer jacket. For H311, H611 and H621, unravel the braid back 2 inches.
- · Position braid on same side of each heating cable section.
- · Straighten the braid and twist into a "pigtail".

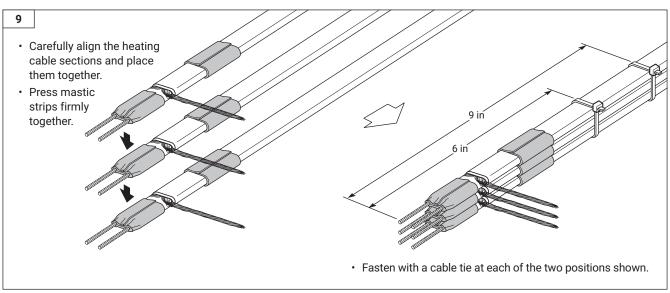


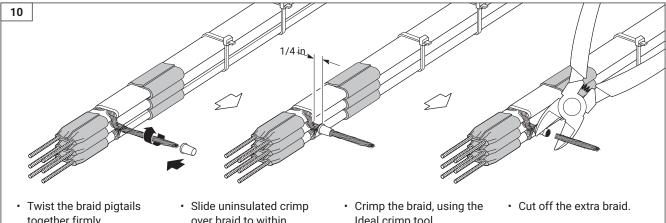




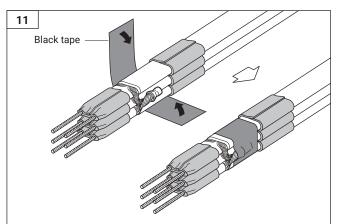








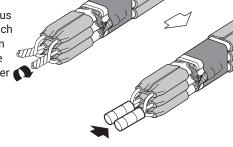
- together firmly.
- over braid to within 1/4 inch of heating cable as shown.
- Ideal crimp tool.
- Crimp firmly to ensure the crimp is not loose.



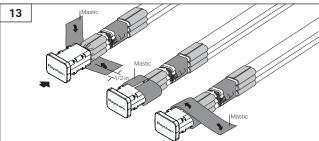
- · Fold the crimped braid back against the heating cables.
- · Wrap black cloth tape evenly around crimp and heating cables. Cover crimp completely.
- **⚠** CAUTION: Ensure flat surface of crimp touches cables in order to have a less bulky shape.

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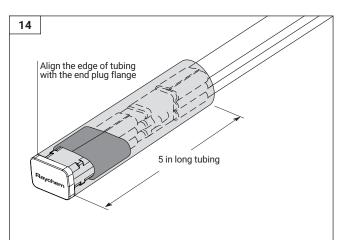
· Select one bus wire from each cable section and twist the wires together firmly.



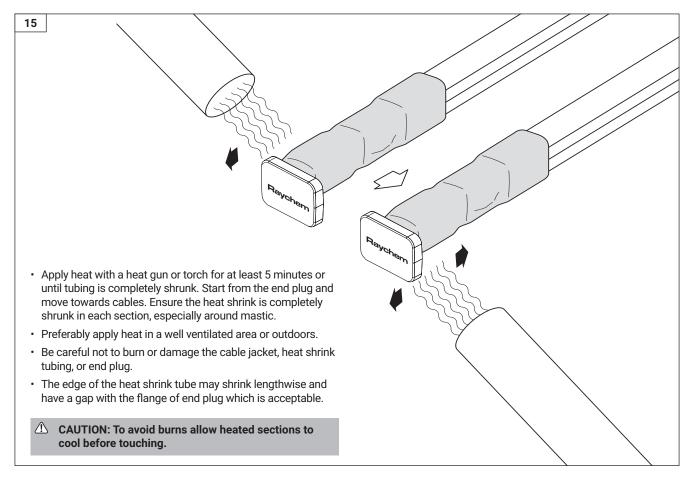
- · Repeat with remaining bus wires. Be careful not to twist together bus wires from the same heating cable.
- · Use insulated bus wire crimps and T&B crimp tool (Insulated cavity section) to crimp each set of bus wires together firmly to ensure crimps are not loose.
- **CAUTION:** Ensure there is no visible damage to the insulation layer of two crimps. After crimping, pull on crimp connection to check tightness.

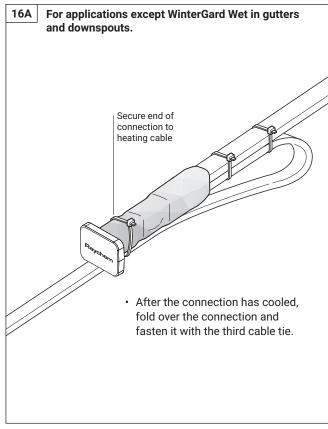


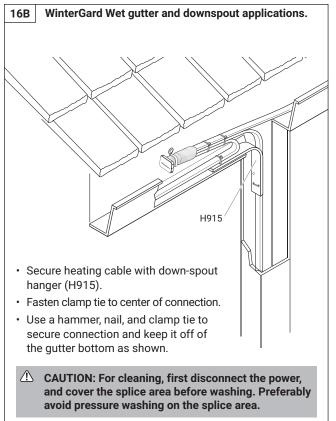
- · First check that there are no cracks or damage to the end plug. Slide the end plug over the bus wire crimps all the way and push firmly toward mastic.
- · Wrap one piece of mastic around the open end of the end plug so half of the width covers the end of plug and half covers the cables.
- · Apply a second piece of mastic like the first one to completely cover the end of the plug. Press the mastic pieces together and into the plug and wire mastic pieces.



· Slide in the 5" heat shrink tube and align it with the flange of end plug, then start heating by a heat gun from the end plug toward the cables.

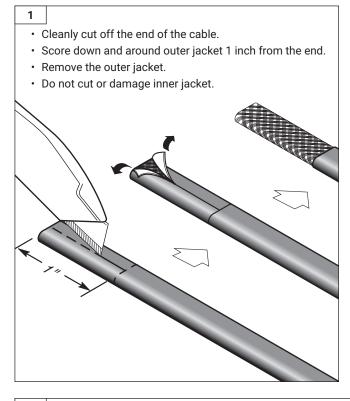


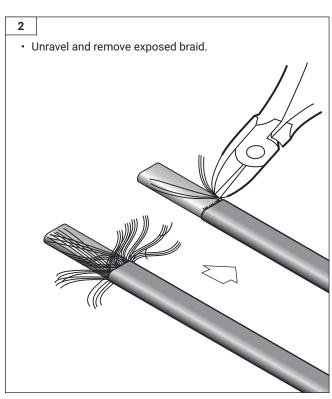




End Seal Installation Instructions for H612 and H622 Heating Cables

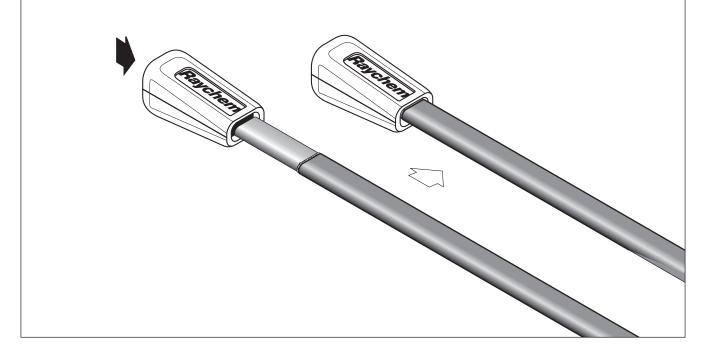
Note: The end seal is designed to be installed only once. It cannot be removed from the heating cable once it is installed. Do not install it until instructed to do so in Step 3





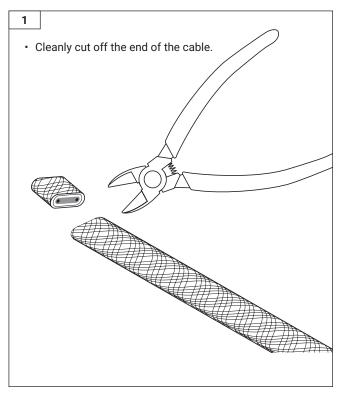


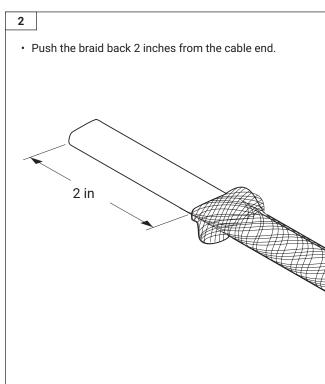
- Firmly push end seal onto the cable (at least 1½ inch). Some gel may ooze out.
- Do not twist or try to remove the end seal during or after insertion.
- Do not reuse an end seal.



End Seal Installation Instructions for H311, H611 and H621 Heating Cables

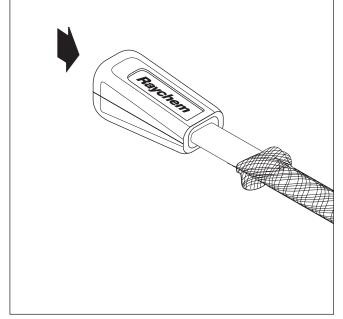
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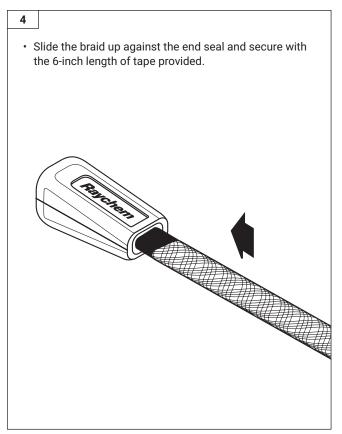


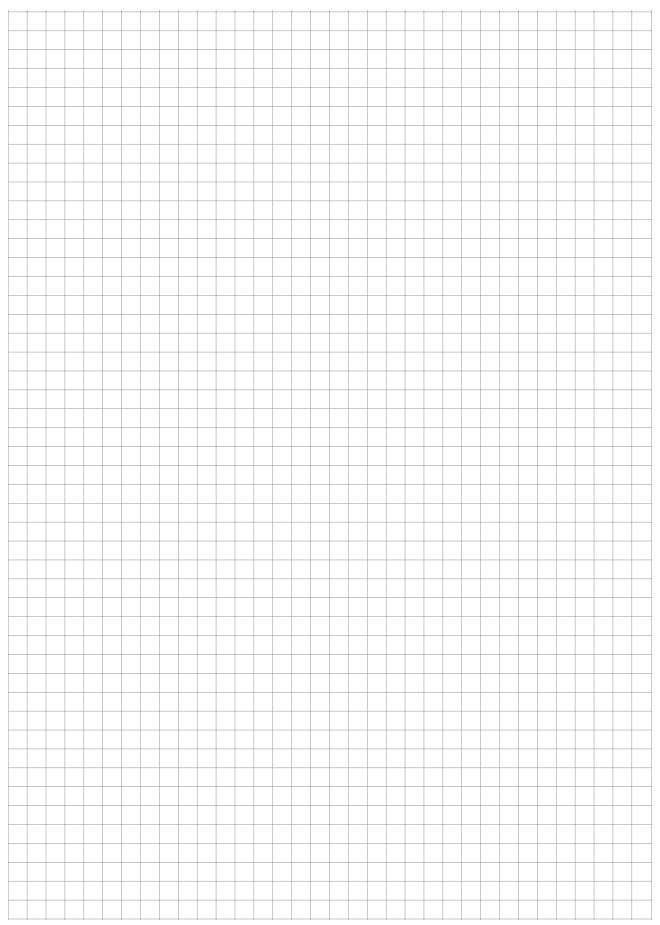


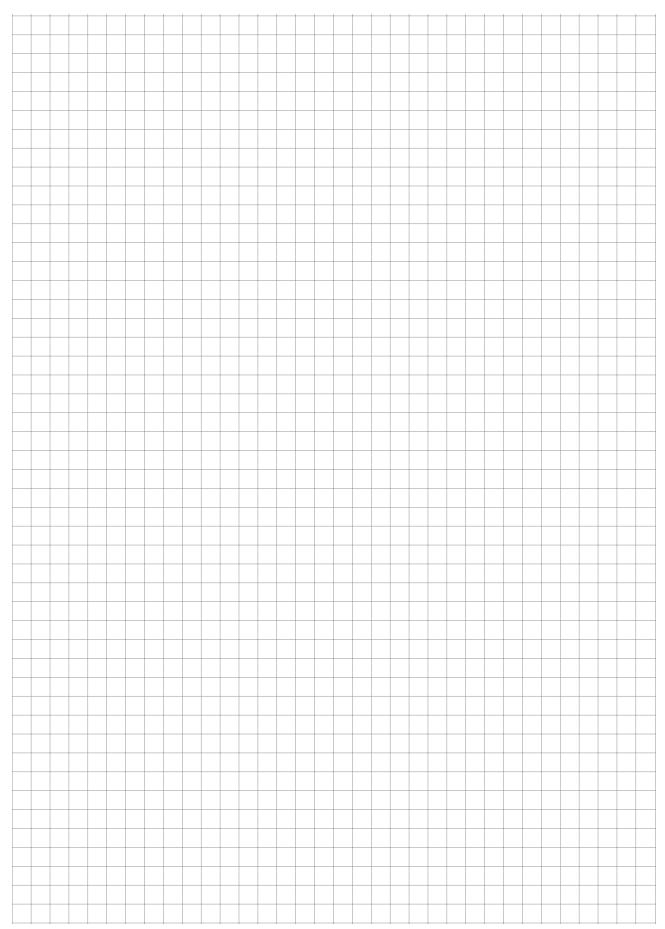
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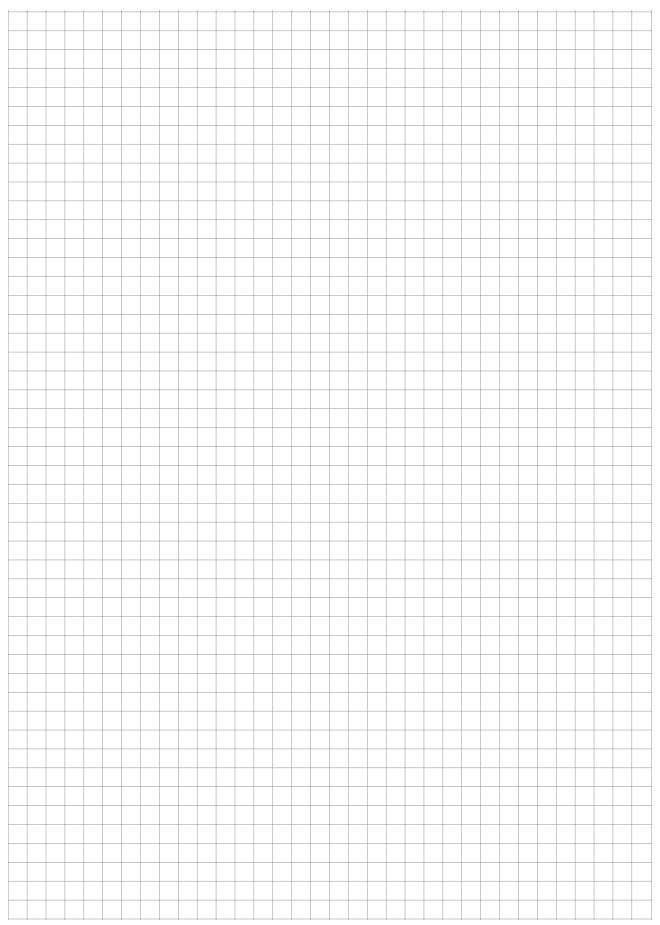
- Firmly push end seal onto the cable (at least 1½ inch). Some gel may ooze out.
- Do not twist or try to remove the end seal during or after insertion.
- · Do not reuse an end seal.











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