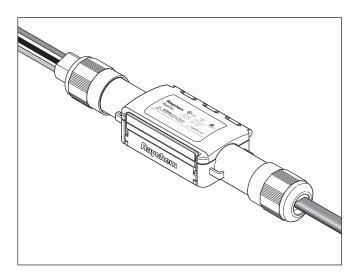
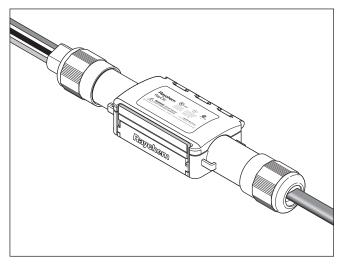
Raychem

RayClic Connection System

Installation Instructions





APPROVALS



Pipe Heating System 718K, ALSO LISTED De-icing and Snow Melting Equipment 877Z, AND De-icing and Snow Melting Equipment FOR USE IN HAZARDOUS **LOCATION E538285**

Hazardous Location Class I Div. 2 Group A, B, C, D T6 when installed with GM-1XT and GM-2XT only -40°C ≤ Tambient ≤ +40°C

DESCRIPTION

Raychem RayClic-PC Power Connection and End Seal Kit Raychem RayClic-PS Powered Splice and End Seal Kit Raychem RayClic-PT Powered Tee and End Seal Kit

These kits are for use with 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 Chemelex representative or call Chemelex (800) 545.6258.

TOOLS REQUIRED

Wire cutters

- TORX® T20 screw driver
- Utility knife
- Wrenches (2)

ADDITIONAL UL LISTED OR CSA CERTIFIED **MATERIALS REQUIRED:**

- · 1/2 inch flame retardant conduit and fittings
- Junction box

OPTIONAL ACCESSORIES (NOT INCLUDED IN THIS KIT)

· RayClic-SB-02 Wall 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 Chemelex, 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 Chemelexspecified parts only. Do not use substitute parts or vinyl electrical tape.
- Leave these instructions with end user for reference and future use.

∧ AVERTISSEMENT :

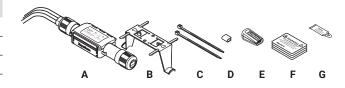
Le câble chauffant électrique doit être installé correctement pour éviter les risques d'incendie ou de décharge électrique. Lisez attentivement les mises en garde suivantes et suivez les instructions d'installation.

- Pour réduire le danger d'incendie causé par un arc électrique continu, si le câble chauffant est endommagé ou mal installé, et pour être conforme avec Chemelex, les organismes de certification et les codes applicables, il est impératif d'utiliser une protection par disjoncteur différentiel. Un disjoncteur ordinaire peut
- ne pas être assez sensible pour prévenir les arcs continus.
- Les fils omnibus peuvent être courtcircuités s'ils se touchent. Tenez les fils omnibus éloignés les uns des autres
- Les composants et les terminaisons du câble chauffant doivent être tenus au sec avant et pendant l'installation.
- Le noyau du câble chauffant noir est conducteur et peut occasionner des courts-circuits. Il doit être correctement isolé et gardé à sec.
- Les homologations et les performances des composants sont basées sur l'utilisation de pièces spécifiées par Chemelex seulement. N'utilisez pas de pièces de rechange ou de ruban isolant en vinyle.
- Laisser ces instructions d'installation à l'utilisateur pour référence ultérieure.

KIT CONTENTS

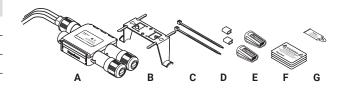
RayClic-PC Power Connection Kit

. ,		
ltem	Qty	Description
Α	1	Power connection
В	1	Pipe mounting bracket
С	2	Plastic cable ties
D	1	Clip
E	1	End seal
F	4	Labels (1 HWAT, 1 De-Icing & Snow Melting, 2 Warning)
G	1	Cable lubricant (for use with HWAT cables only)



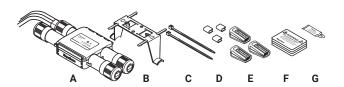
RayClic-PS Powered Splice Kit

,				
ltem	Qty	Description		
Α	1	Powered splice		
В	1	Pipe mounting bracket		
С	2	Plastic cable ties		
D	2	Clips		
E	2	End seals		
F	4	Labels (1 HWAT, 1 De-Icing & Snow Melting, 2 Warning)		
G	1	Cable lubricant (for use with HWAT cables only)		



RayClic-PT Powered Tee Kit

. ,		
Item	Qty	Description
Α	1	Powered splice
В	1	Pipe mounting bracket
С	2	Plastic cable ties
D	3	Clips
E	3	End seals
F	4	Labels (1 HWAT, 1 De-Icing & Snow Melting, 2 Warning)
G	1	Cable lubricant (for use with HWAT cables only)

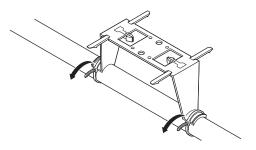


POWER CONNECTION, SPLICE AND TEE INSTALLATION

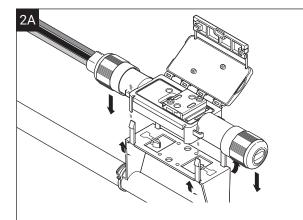




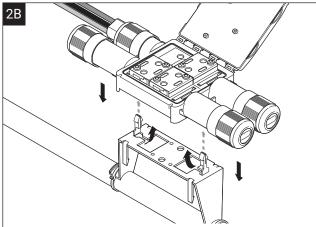
• Using the plastic cable ties, attach* the bracket to the pipe.



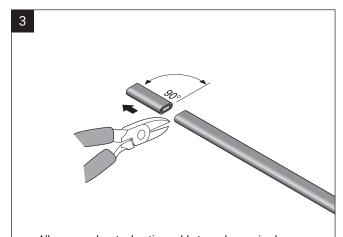
* For roof-mounted applications, follow steps 3 through 9 (pages 4-6), then turn to "Roof Installation" on page 7.



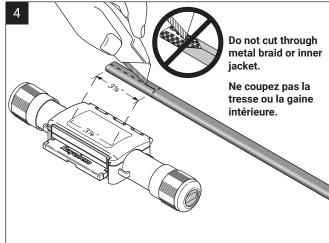
For the RayClic-PC power connection, fold up the four outer snaps, then position the connector over the snaps and press down.



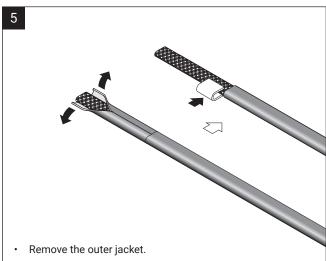
• For the RayClic-PS powered splice and the RayClic-PT powered tee, fold up two center snaps, then position the connector over the snaps and press down.



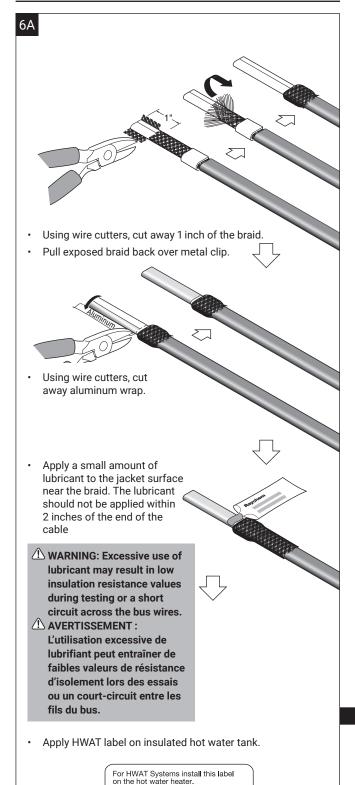
- Allow enough extra heating cable to make service loops as required.
- Make sure the end of the heating cable is cut clean.



Score around and down the outer jacket of the heating cable 31/8 inches from the end.

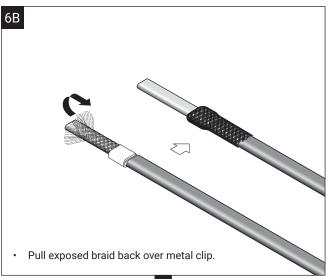


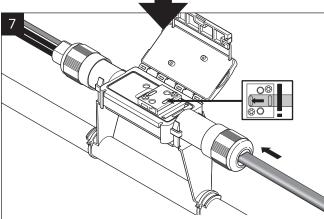
Place the metal clip over the base of the exposed braid.



ATTENTION

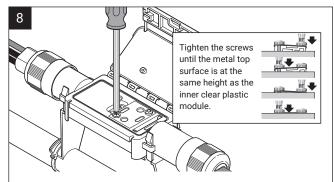
DO NOT heat water above 150°F. Temperatures above 150°F will permanently reduce the power output of the HWAT heating cable on this hot water system.



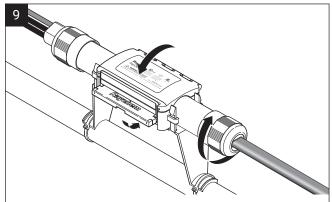


Insert prepared heating cable end into connector. Push until heating cable is fully inserted and end is visible through opening in connection cover plate.

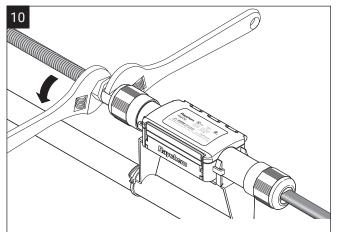
Note: RayClic connection kits are designed to be installed only once; the heating cable cannot be removed once installed.



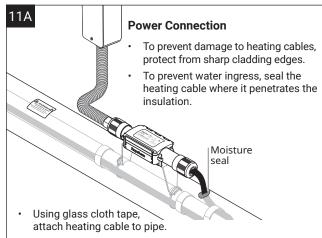
- Securely tighten the two connection screws, alternating as they are being tightened.
- For Powered Splice and Tee kits, repeat steps 3 through 8 for all remaining heating cable entries.
- ⚠ WARNING: Fire hazard. Loose screws can cause excessive heating. Be sure screws are fully tightened.
- AVERTISSEMENT : Risque d'incendie. Des vis desserrées peuvent causer une surchauffe.
 - S'assurer que les vis sont bien serrées.



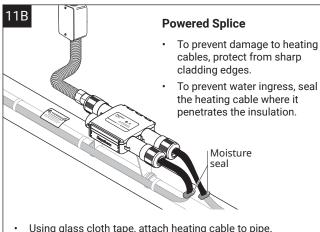
- Close the lid and snap the lever shut. Do not force lid closed; if lid does not close, check the connection to ensure all screws are fully tightened.
- Tighten the nuts on the heating cable entries until grommets are compressed.



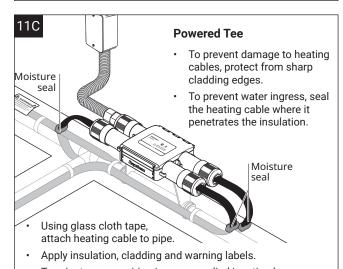
Using two wrenches, attach user-supplied ½ inch conduit. To avoid breaking housing, do not exceed 15 ft-lbs of torque. Broken connectors must be replaced.



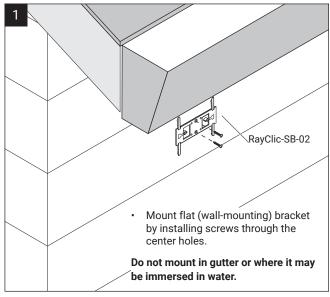
- Apply insulation, cladding and warning labels.
- Terminate power wiring in user-supplied junction box.

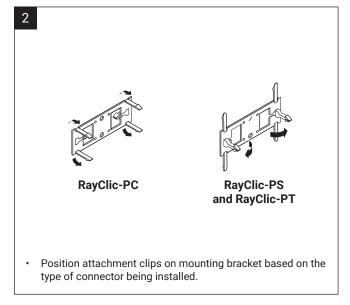


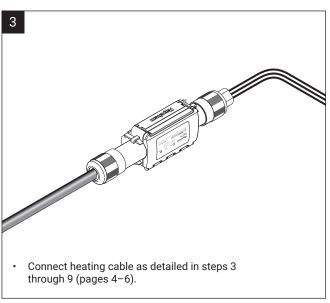
- · Using glass cloth tape, attach heating cable to pipe.
- Apply insulation, cladding and warning labels.
- Terminate power wiring in user-supplied junction box.

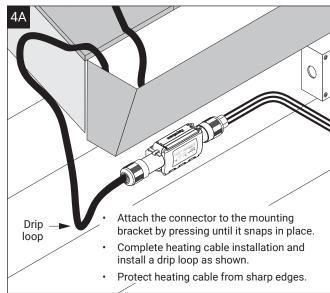


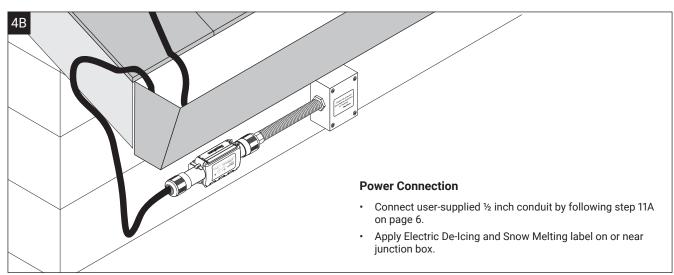
ROOF INSTALLATION



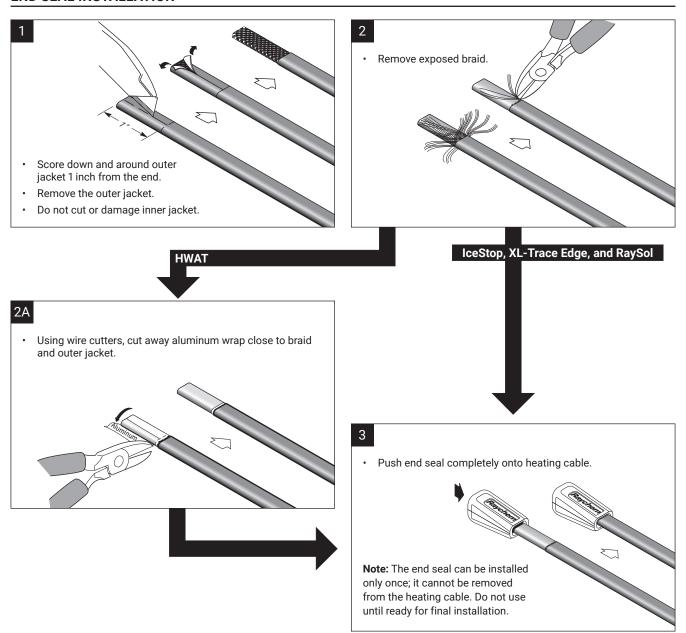








END SEAL INSTALLATION



TROUBLESHOOTING GUIDE

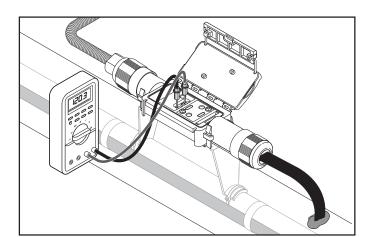
Problem	Solution
Braid clips are missing.	The braid clips are attached to the cardboard packing insert under the lid. The braid clips must be used to ensure a ground connection. If clips are missing or lost, call Chemelex at (800) 545-6258.
Mounting bracket is missing.	A pipe mounting bracket is supplied with the Power Connection, Powered Splice and Powered Tee kits. A wall mounting bracket or additional pipe mounting bracket may be ordered using one of the catalog numbers listed under "Optional Accessories" on the front page of these instructions when you place your order.
Connector does not snap onto bracket.	The bracket has two sets of attachment clips. Fold up the four outer clips for the Power Connection kit. Fold up only the center clips for the Powered Splice and Powered Tee kits.
Heating cable type not mentioned.	Raychem RayClic connection kits are approved for use only with HWAT, XL-Trace Edge, and IceStop heating cables. Do not use with other heating cables.
Braid clip does not fit.	Be sure the clip is installed on the metal braid, not on the outer jacket.
Heating cable does not have aluminum wrap.	Only HWAT heating cables have the aluminum wrap under the braid. Skip the aluminum wrap removal step for XL-Trace Edge and IceStop heating cables.
Heating cable cannot be inserted into connector.	Check for the following: Apply cable lubricant to the heating cable primary (white) jacket. Outer jacket strip length is 3½ 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.
Lid does not close.	Be sure all screws are fully tightened before closing the lid.
Heating cable cannot be inserted into end seal.	The outer jacket must be removed from the heating cable before the end seal is installed (see the "End Seal Installation" instructions on page 8). Make sure 1 inch of the outer jacket, braid, and aluminum wrap (HWAT only) are removed.
Heating cable cannot be removed.	The power connection and end seal are designed to be installed only once; the heating cable cannot be removed once installed. Additional Raychem RayClic-E end seals can be ordered from Chemelex.

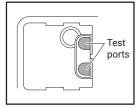
HEATING CABLE CIRCUIT TESTING

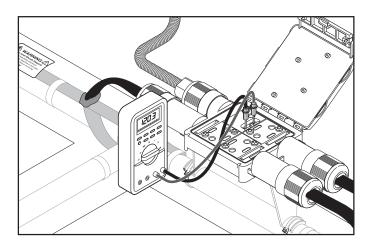
The RayClic Power Connection Kits (RayClic-PC, RayClic-PS and RayClic-PT) now include test ports in the blank module. Voltage can measured at these points to confirm continuity or power to the installed heating cable circuit. For detail heating cable operation refer to the appropriate installation and operating manual.

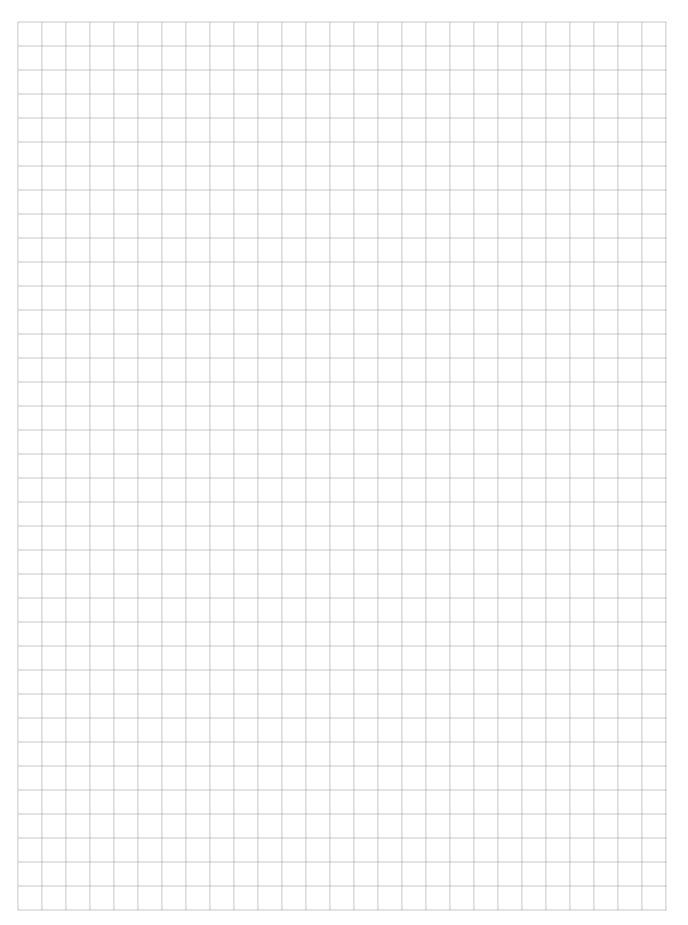
Instructions:

- 1. Open the RayClic Cover.
- 2. Set multimeter to AC voltage function.
- 3. Insert multimeter test probes into the two test ports.
- ⚠ WARNING: To avoid shock do not cross the test probes or touch them to the metal pressure plate when measuring voltage.
- ⚠ AVERTISSEMENT : Pour éviter les chocs, ne pas chevaucher les sondes d'essai et ne pas toucher au plateau de pression métallique pour mesurer la tension.









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Raychem

Tracer

Pyrotenax

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