

Warmup SR-HTMK Power Connection and End Seal Kit

For use with the SR-KxUJ Unjacketed Parallel
Self-regulating Cable



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Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Warmup Inc. accepts no liability, expressed or implied, for any loss or consequential damage suffered as a result of installations which in any way contravene the instructions that follow.

It is important that before, during and after installation that all requirements are met and understood. If the instructions are followed, you should have no problems. If you require help at any stage, please contact our helpline.

You may also find a copy of this manual, wiring instructions and other helpful information on our website

www.warmup.com

Important Safety Instructions

Read and understand all instructions in this manual and the following installation instructions and Safety Warnings.

WARNING! Risk of shock or fire.



Failure to comply with local wiring regulations (NEC/CEC) or the contents of this manual may result in electric shock or fire! Damage to, or improper installation, use and/or maintenance of electrical heating cable can result in fire, electrical shock and/or freezing of pipe.

-  When this symbol is displayed, pay close attention to the accompanying safety instructions. Read and understand all warnings before proceeding, as failure to do so may result in serious injury or death.
-  SR-HTMK is intended for use with the SR-KxUJ unjacketed parallel self-regulating cable. Install the heating cable in accordance with all applicable national, regional and local electrical codes and its installation instructions. Contact your local electrical inspector or authority having jurisdiction for specific installation requirements.
-  Before installation, servicing or maintenance, the cables and SR-HTMK kit **MUST** be de-energized. Do not rely solely on the power indicator to confirm isolation.
-  Keep the cable connection housing, end seals and all thermal insulation materials dry and properly protected from moisture. Failure to maintain a weatherproof installation may result in fire or electric shock.
-  Use only the power connection and end seal supplied as part of the SR-HTMK kit. Do not substitute or modify components.
-  To prevent electrical short circuits, do not twist the cable conductors together or allow the conductors to contact the grounding braid.
-  Seal the cable only with the approved end seal provided. Cut the cable jacket only where required for approved power and end seal terminations.
-  Do not cut, nick or otherwise damage the cable ground braid. The protective grounding braid must remain intact at all times.
-  Connect the system to a properly installed electrical receptacle that complies with the National Electrical Code (NEC), Canadian Electrical Code (CEC), and all local regulations. The receptacle must be protected from rain, water, and other environmental exposure.
-  Ground-fault protection (GFCI) must be provided for all installations. If ground-fault protection is not available or its presence cannot be verified, consult a qualified electrician before energizing the system.
-  For mobile-home installations, connect the system only to a dedicated outlet located beneath the mobile home in a dry, protected location. Do not use extension cords.

Product Introduction

The Warmup SR-HTMK Power Connection and End Seal Kit is designed for field assembly of Warmup SR-KxUJ unjacketed self-regulating heating cable used for freeze protection of residential metal water supply pipes, for use in locations protected from rain and sunlight. Use this kit only with the compatible heating cable models identified in these instructions.

The kit provides the power connection and end seal required to complete the heating cable system. Its clip on construction simplifies installation while helping to provide secure electrical connections and grounding continuity.

Before You Begin

Ensure the cables and SR-HTMK kit are de-energized before beginning installation. Do not rely solely on the power indicator to confirm isolation.

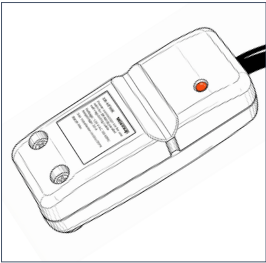
Ensure that the SR-HTMK connection kit and cable ends are kept clean and dry before and during installation.

Tools required

- Phillips No. 2 screwdriver, slotted screwdriver
- Wire cutters or heavy scissors
- Ruler or measuring tape

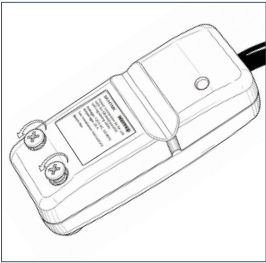
Install the Power Connection

 DO NOT ATTEMPT TO ASSEMBLE THE PLUG OR END SEAL WHEN PLUG IS CONNECTED TO THE ELECTRIC POWER.



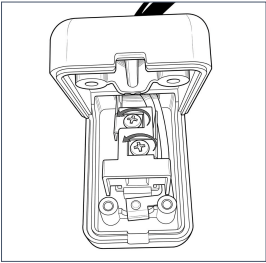
Check the indicator before assembly

Before installation, plug the power cord into a 120 V AC outlet and confirm that the power indicator illuminates. If it does not illuminate, return the plug for replacement. Disconnect the power cord before continuing.



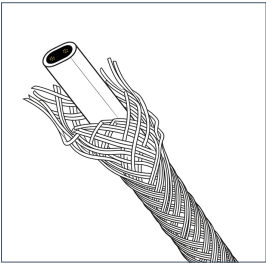
Open the SR-HTMK housing

Loosen the two cover screws and lift the cover.



Loosen the SR-HTMK terminal screws

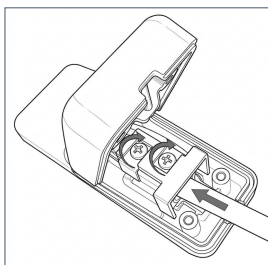
Loosen but do not fully remove the two cover terminal screws with the screwdriver.



Unravel the braid of the SR-KxUJ cable

Cut the end of the SR-KxUJ square and then loosen and pull back the ground braid.

Install the Power Connection

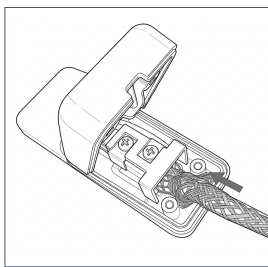


Insert SR-KxUJ Cable

Insert the SR-KxUJ cable into the opening of the SR-HTMK housing until resistance is felt. If the cable does not reach the required position, loosen both terminal screws slightly and reinsert the cable.

Once the cable is in position, tighten both terminal screws until the screw heads are firmly seated against the metal surfaces of the terminal assembly.

As the terminal screws are tightened, the screws pierce the cable insulation and establish electrical contact with the bus wires.

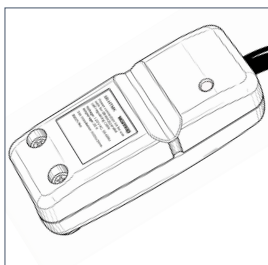


Position the grounding braid

Fold the ground braid back over the insulated heating cable and guide the braid into the SR-HTMK housing.

Position the braid directly on the grounding strip. Confirm that the braid will remain in firm contact with the grounding strip when the housing cover is refitted.

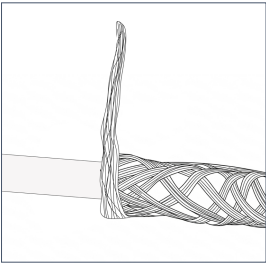
 Keep the grounding braid clear of both terminal screws and the live terminal area. Do not allow any braid strands to become trapped in or contact the terminal screw connections.



Refit the cover

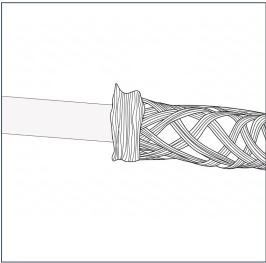
Refit the cover. Insert and tighten the two cover screws until snug against the recessed plastic surfaces.

Install the end seal



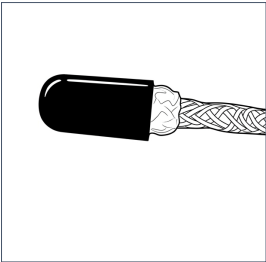
Prepare the cable end

Cut the cable end cleanly and squarely and unravel the ground braid back approximately 1" (25 mm) from the cable end. Twist the unravelled braid into a tight pigtail.



Wrap the pigtail

Wrap the pigtail around the end as shown and tape into position if required.



Fit the End Seal

Push the prepared cable end at least $\frac{3}{4}$ " (19 mm) into the end seal. A small amount of sealant may be displaced. Do not wipe away the sealant. Do not twist the end seal during or after insertion. The end seal is not reusable.

Operation and Maintenance

Before energizing the completed system, inspect the SR-HTMK, cable entry and end seal for visible damage, loose parts or moisture. Do not energize a damaged or incomplete installation.

After completing all checks required by the applicable SR-KxUJ cable manual, energize the system and confirm that the SR-HTMK power indicator illuminates. The indicator confirms indicator operation only and does not verify grounding or heating performance.

If the indicator does not illuminate, disconnect the plug from the electrical supply and check that power is available at the receptacle and that the SR-HTMK was assembled in accordance with these instructions.

Do not repair or reuse a damaged connection or end seal.
Replace the SR-HTMK.

For commissioning, troubleshooting, inspection and seasonal maintenance requirements, refer to the applicable Warmup SR-KxUJ installation manual. Retain both manuals with the completed system.

 Disconnect the system from the power supply before inspection or servicing.

Specifications

Model	SR-HTMK
Product type	Power connection and end seal kit
Voltage	120 V AC, 60 Hz
Maximum current	20 A
Compatible cable	SR-KxUJ
Intended use	Field termination of unjacketed SR-5W-1-250-U self-regulating heating cable
Location	Protected from rain, moisture and sunlight
Prohibited use	Fire-sprinkler systems



Warmup is available 24/7/365 at (888) 927-6333
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