



SR SELF-REGULATING CABLE
TRACE

EASYHEAT®

SRP Power Connection Kit Installation Instructions

DESCRIPTION

The SRP Power Connection Kit can be used to connect power to all versions of Easy Heat's SRTrace® heating cables for pipe tracing applications or Easy Heat's SR51J and SR52J heating cables for roof and gutter deicing applications. This kit provides termination materials for both power supply and tail end of one heater cable, and includes a pipe stand-off and junction box entry seal. *The junction box is not included in this kit.* Suitable for use at 120V, 208V, 240V, and 277V up to 30A.

KIT CONTENTS

- 1 Cable Connector, 1/2" NPT
- 1 Locknut (1/2" NPT)
- 2 Shrink Tubes, 1/8" (3mm) dia., 1" (25mm) length
- 2 Shrink Tubes, 1/2" (13mm) dia., 2" (51mm) length
- 1 Shrink Tube, 3/4" (19mm) dia., 3" (76mm) length
- 3 Wire Nuts
- 1 Pipe Stand-off
- 2 Warning Labels
- 1 Gray Grommet

WARNINGS!

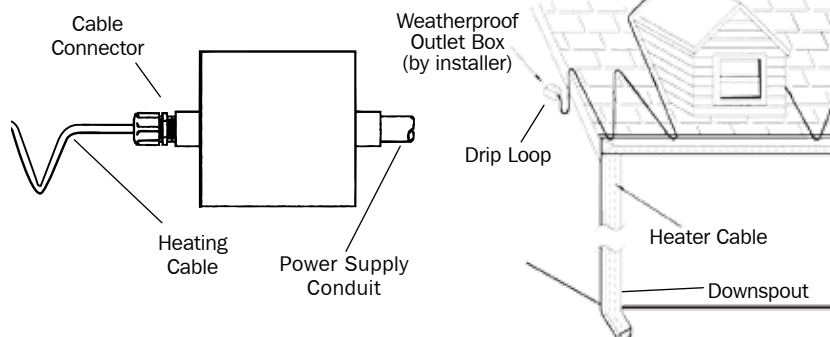
- Installation of SR Heater Cable for roof and gutter deicing must be in accordance with the requirements of all applicable electrical and building codes and regulations. All supply branch circuits must have ground-fault protection. The braid shield must be effectively grounded by a properly-sized equipment grounding conductor or other approved means.
- Do not twist bus wires together—this will result in a short circuit and damage the cable.
- Moisture must be kept away from the live electrical parts of the cable or electrical faults will develop.
- Damaged heater cables must be repaired or replaced.
- Minimum installation temperature -30°C (-22°F).
- Failure to install Easy Heat SR trace cable in accordance with these instructions may result in fire, electrocution, pipe freeze-up or other dangerous conditions.

ROOF & GUTTER DEICING INSTALLATION

1. Terminate the end of the cable according to the End Seal Procedures. Position the end seal at least 6" up the roof edge or under overhang. **DO NOT** position end seal in a location where water may pool or in gutter downspout. The end seal is not designed to be placed under water for extended periods of time.
2. Install SR51J or SR52J cable on roof and in gutter and downspout as per instructions provided with cable.
3. Mount weatherproof junction box (not included in kit). Use junction box suitable for installed environment.
4. Cut heating cable 12" – 18" beyond the junction box location.
5. Slide cable connector nut and washer, black sealing grommet and connector body over cable and lightly thread connector nut onto the connector body.
6. Secure the cable connector to the junction box with the locknut, leaving a drip loop where the cable exits the box.
7. Prepare heater cable for power termination according to Cable Termination Procedures below.
8. Terminate heater cable in accordance with Power Connection Procedures below.

**WARNING! END SEAL MUST NOT BE SUBMERGED
NOR ALLOWED TO BE AT THE BOTTOM END OF A
DOWNSPOUT**

TYPICAL ROOF & GUTTER INSTALLATION



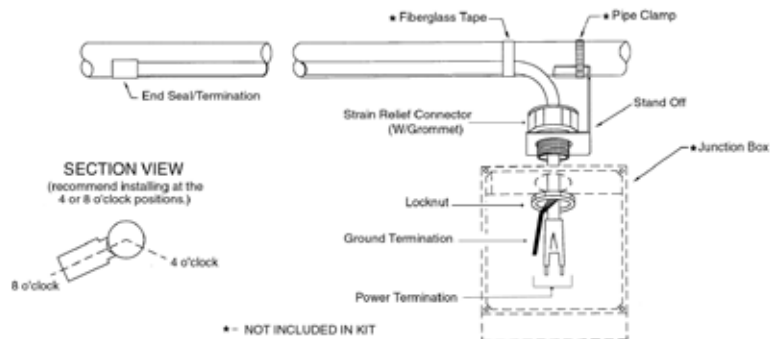
PIPE TRACING INSTALLATION

1. Install cable on pipe.
2. Terminate the end of the cable according to the End Seal Procedures below.
3. Mark pipe where stand-off is to be mounted and cut heating cable 10" beyond the mark.
4. Slide cable connector nut and washer, sealing grommet and connector body over cable and lightly thread connector nut onto the connector body.
5. Secure the stand-off between the cable connector and the junction box (not supplied with kit) with the locknut.
6. Mount the stand-off to the pipe at either the 4 o'clock or 8 o'clock position with a pipe clamp (not supplied in kit) and pull any excess heating cable into the junction box (see "Section View" below).

7. Prepare heater cable for power termination according to cable Termination Procedures below.

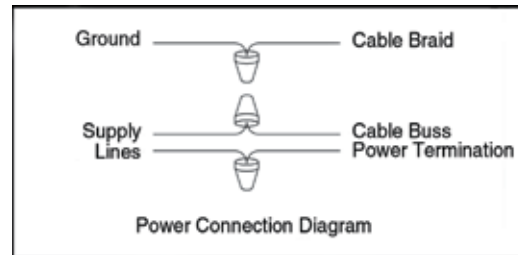
8. Terminate heater cable in accordance with Power Connection Procedures below.

WARNING! DO NOT PLACE PIPE CLAMPS OVER THE HEATER CABLE



POWER CONNECTION PROCEDURES

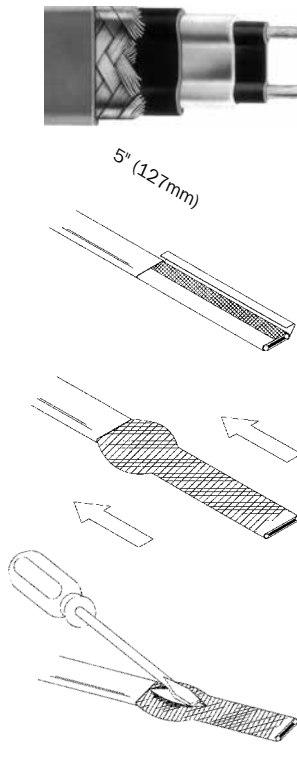
1. Connect the ground braid pigtail to a properly grounded conductor using a supplied wire nut or other suitable means.
2. Connect the power termination buss wires to the power source wires using the supplied wire nuts or other suitable means.
3. Close the junction box and restore power to the supply circuit.



CABLE TERMINATION PROCEDURE

For cables without overjacket (braid only), proceed directly to step 4.

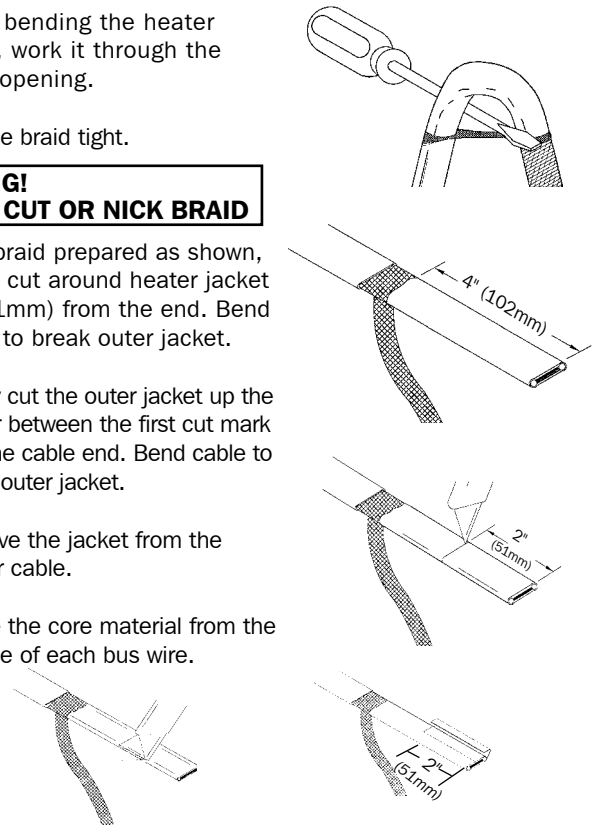
1. Lightly cut around heater overjacket 5" (127mm) from the end. Bend cable to break overjacket.
2. Lightly cut overjacket up the center between first cut mark and the cable end. Bend cable to break the overjacket.
3. Remove overjacket from the heater cable.
4. Move braid back toward the overjacket, creating a bulge. (For cables without overjacket, apply a ring of electrical tape 5" from end of cable, then move braid back toward tape, creating a bulge.)
5. At the bulge, separate the braid to make an opening.



6. While bending the heater cable, work it through the braid opening.
7. Pull the braid tight.

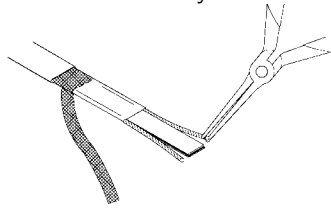
WARNING! DO NOT CUT OR NICK BRAID

8. With braid prepared as shown, lightly cut around heater jacket 2" (51mm) from the end. Bend cable to break outer jacket.
9. Lightly cut the outer jacket up the center between the first cut mark and the cable end. Bend cable to break outer jacket.
10. Remove the jacket from the heater cable.
11. Shave the core material from the outside of each bus wire.

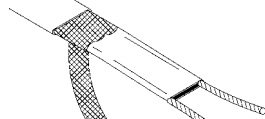


CABLE TERMINATION PROCEDURE CONTINUED

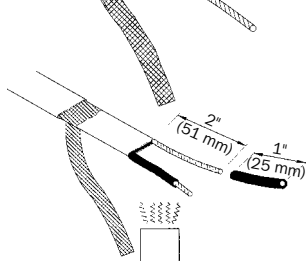
12. Starting at the end, pull each bus wire away from the core material.



13. Remove exposed core material.

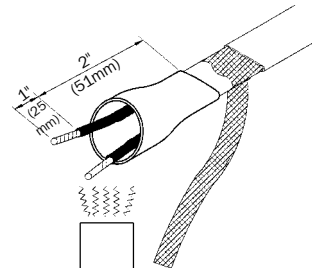


14. Cut 1/4" (6mm) off the end of each bus wire.

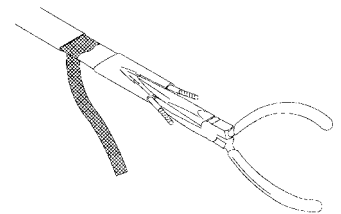


15. Slide one 1/8" (3mm), 1" (25mm) length shrink tube over each bus wire, leaving approximately 1/2" (13mm) of each bus wire exposed. Shrink with heat gun until completely shrunk.

16. Slide one 1/2" (13mm) dia., 2" (51mm) length shrink tube over both pigtail leads leaving approximately 1" (25mm) of each pigtail lead exposed. Shrink with heat gun until completely shrunk.



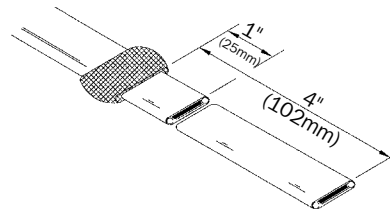
17. While still warm, spread bus wires and squeeze between them using needle-nose pliers, hold for 5 seconds.



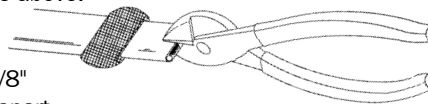
Allow power termination to cool before use.

END SEAL PROCEDURES

1. Cut heater cable off at required length. Being careful not to sever or nick ground braid, strip overjacket back 4" (102mm) from the end of heater cable. Slide braid back over the overjacket (if present) portion of the heater cable.

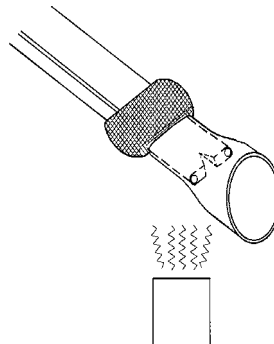


2. Cut off excess heater cable leaving 1" (25mm), as above.



3. As above, slit the web separating the bus wires 3/8" (10mm) in from cable end. Slightly spread wires apart.

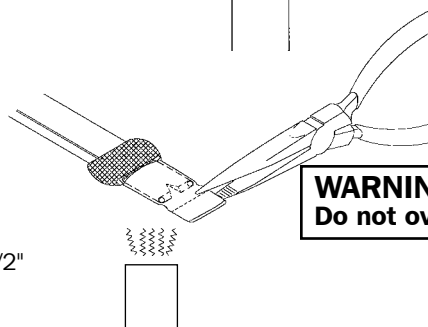
4. Slide a 1/2" (13mm) dia., 2" (51mm) length shrink tube over the heater cable leaving 1" (25mm) of shrink tube beyond the heater cable end. Shrink with heater gun until completely shrunk.



5. While still warm, squeeze the entire width of shrink tube closed. Cut off excess shrink tube leaving at least 3/8" (10mm) beyond cable end.

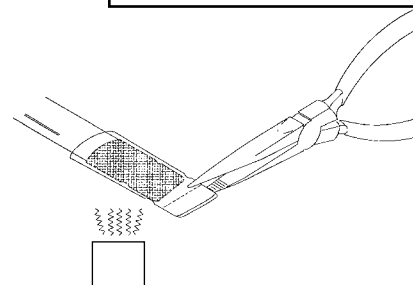
6. Pull braid over the squeezed shrink tube, covering the entire end seal and twist closed.

7. As illustrated below, fold twisted braid back upon itself and slide a 3/4" (19mm) dia., 3" (76mm) length shrink tube over the braid leaving 1/2" (13mm) of shrink tube beyond the end of the braid. Shrink with heat gun until completely shrunk.



WARNING!
Do not overlap braid with shrink tube.

8. While still warm, squeeze the entire width of shrink tube closed.



LIMITED WARRANTY AND LIABILITY

Easy Heat warrants that if there are any defects in material or workmanship in any heating cable or accessory during the first year after the date of purchase. We will provide new products to replace any defective items, or we will refund the purchase price paid for the accessory or cable, not including any labor or other installation costs. As an alternate, we may elect to repair the cable or accessory at our factory with all shipping and other removal costs borne by the purchaser.

We further warrant that any services performed for the Buyer hereunder will be performed in a good and skillful manner, based on our understanding of pertinent technical data as of the date of performance of such services. Easy Heat's sole responsibility and liability in the event of any defect, error, omission, or failure in the services rendered hereunder shall be to provide corrected services of the type provided for herein, designed to correct such defect, error, omissions, or failure, and in no event shall the Easy Heat's liability with respect to such warranty exceed the amount received by it from the Buyer on account of such services.

Our obligation to provide corrected services, new products, refund the purchase price, or perform the repair described above is conditioned upon (a) the installation of the accessory or cable conforming to the specifications set forth in our installation instructions and (b) the accessory or cable not having been damaged by mechanical or electrical activities unrelated to the operation of the accessory or cable.

A refund of your purchase price, provision of replacement products, repair of the accessory or cable or provision of corrected services as described above, shall be your sole and exclusive remedy for a breach of this warranty. THESE ARE THE SOLE AND EXCLUSIVE WARRANTIES GIVEN BY EASY HEAT WITH RESPECT TO THE GOODS AND SERVICES AND ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO EASY HEAT IN SPECIFICATIONS, DRAWINGS OR OTHERWISE, AND WHETHER OR NOT EASY HEAT'S PRODUCTS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY EASY HEAT FOR YOUR USE OR PURPOSE.

This warranty does not extend to any losses or damages due to misuse, accident, abuse, neglect, normal wear and tear, negligence, unauthorized modification or alteration, use beyond rate capacity, or improper installation, maintenance or application. To the extent that you or your agents have supplied specifications, information, representation of operating conditions or other data to Easy Heat in the selection or design of the Goods and the preparation of Easy Heat's quotation, and in the event that actual operating conditions or other conditions differ from those represented by you, any warranties or other provisions contained herein which are affected by such conditions shall be null and void.

If within thirty (30) days after your discovery of any warranty defects within the warranty period, you notify Easy Heat thereof in writing, Easy Heat shall, at its option, repair, correct or replace F.O.B. point of manufacture, or refund the purchase price for, that portion of the Goods found by Easy Heat to be defective. Failure by you to give such written notice within the applicable time period shall be deemed an absolute and unconditional waiver of your claim for such defects. Goods repaired or replaced during the warranty period shall be covered by the foregoing warranty for the remainder of the original warranty period or ninety (90) days from the date of shipment of the repaired or replaced goods, whichever is longer.

This limited warranty does not cover any costs relating to the repair or replacement of any accessory or cable at the installation site. Our accessories and cables are not easily accessible. A failed accessory or cable usually cannot be easily repaired. Replacement of a failed accessory or cable will require that the materials under which it is installed be removed to permit replacement of the accessory or cable. **We will not reimburse any costs relating to the repair or replacement of any accessory or cable at the installation site.**

IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL EASY HEAT'S LIABILITY TO YOU AND/OR YOUR CUSTOMERS EXCEED THE PRICE PAID BY YOU FOR THE SPECIFIC GOODS PROVIDED BY EASY HEAT GIVING RISE TO THE CLAIM OR CAUSE OF ACTION. YOU AGREE THAT WE SHALL NOT BE LIABLE TO YOU OR YOUR CUSTOMERS FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL OR PUNITIVE DAMAGES. No agent, employee or representative of ours has authority to bind us to any affirmation, representation or warranty concerning the goods sold unless such affirmation, representation or warranty is specifically incorporated by written agreement.

To obtain new products, arrange repair of existing product, or a refund under this warranty, please contact Easy Heat with a description of the defect and proof of purchase at the address noted herein.



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