

#### DESCRIPTION

The SRST Splice/Tee Kit is for use with Easy Heat's SR heater cables for pipe tracing applications. This kit provides (a double set of) materials to splice two cables together OR to splice a new section of cable into an existing cable (tee splice), including end seal material for the new section of cable.

#### **KIT CONTENTS**

- Wire Ties 2
- Uninsulated Splice Connectors 2 4 Insulated Splice Connectors
- 2 Mastic Strips 2
- Shrink Tubes, 0.5" (13mm) dia., 2" (51mm) length 2
- Shrink Tubes, 0.63" (16mm) dia., 3" (76mm) length
- 2 Shrink Tubes, 0.5" (13mm) dia., 6" (152mm) length 2 Shrink Tubes, 0.63" (16mm) dia., 9" (229mm) length

### CABLE STRIPPING PROCEDURE

- 1. Lightly cut around heater overjacket 3.5" (89mm) 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 overjacket, apply ring of electritape 3.5" (89mm) from end of cable; then move braid back toward tape, creating a bulge.

- With braid prepared as shown at 9 right, lightly cut around heater jacket 2" (51mm) from the end. Bend cable to break outer jacket. 10. Lightly cut the outer jacket up the
- center between the first cut mark and the cable end. Bend cable to break outer jacket.
- 11. Remove the jacket from the heater cable.

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SPLICE

Heater Cables

TEE SPLICE

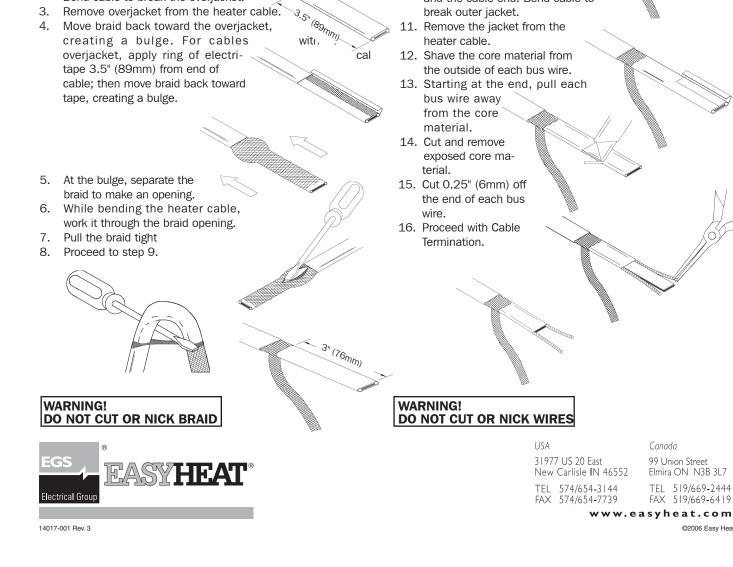
Heater Cables



End Seal

2" (51mm)

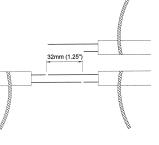
installation instructions



#### SRST Splice/Tee Kit 2

### **TEE SPLICE**

Position the three heater 1. cables with ground braid on the same side. Remove 1.25" (32mm) of one bus wire from each heater cable, creating an offset for the insulated splice connectors.



2. Slide one 0.63" (12mm) dia., 9" (229mm) length shrink tube over the pair of heater cables. Slide one 0.5" (13mm) dia.,

mastic (side view)

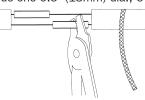
6" (152mm) length shrink tube over the remaining single heater cable. Twist one bus wire, each, from the pair of heater cables together, insert into insulated splice connector and crimp. Repeat for the remaining bus wire of each heater cable. Insert a bus wire of the single heater cable into each insulated splice connector and crimp. Place a mastic strip between the pair of heater cables forming a moisture barrier.

3. Center the 0.5" (13mm) dia., 6" (152mm) length shrink tube over the connectors leaving the braid straps exposed. Make sure the shrink tube covers the mastic strip. Shrink with heat

### SPLICE

- (32mm) Position both heater 1. cables with ground braid on the same side. Remove 1.25" .75' (32mm) of one bus (19 mm) wire from each heater cable, creating an offset for insulated splice connectors.
- Slide one 0.63" (16mm) dia., 9" (229mm) length shrink 2. tube over one heater cable. Slide one 0.5" (13mm) dia., 6"

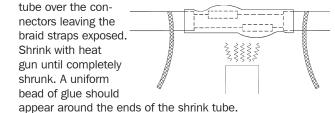
(152mm) length shrink tube over the other heater cables. Crimp an insulated splice connector to each bus wire connect-



1.25"

ing the two heater cables together.

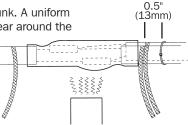
Center the 0.5" (13mm) dia., 6" (152mm) length shrink З.



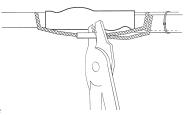
Electrical Group

gun until completely shrunk. A uniform bead of glue should appear around the ends of the shrink

tube. Fasten a wire tie around the two heater cables 0.5" (13mm) from braid.

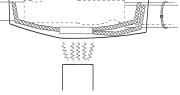


4. Shorten (cut) each braid strap until they butt at the splice centerline and tightly twist each braid strap. Crimp the braid straps together into an uninsulated splice connector. Secure connector at the



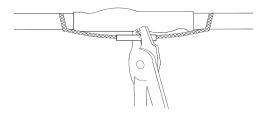
indented area with one and a half wraps of fiberglass tape (not included in kit).

Center the 0.63" 5. (16mm) dia., 9" (229mm) length shrink tube over the splice. Shrink with heat gun until com-



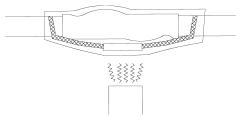
pletely shrunk. A uniform bead of glue should appear around the ends of the shrink tube.

Shorten (cut) each braid strap until they butt at the splice centerline and tightly twist each braid strap. Crimp the braid

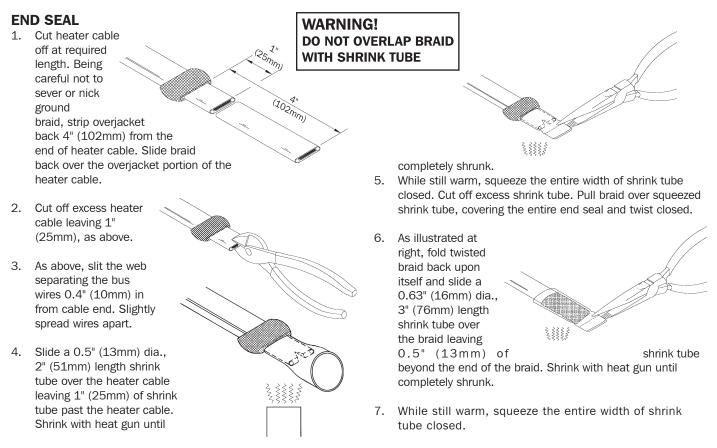


straps together into an uninsulated splice connector. Secure connector at the indented area with one and a half wraps of fiberglass tape (not included in kit).

Center the 0.63" (16mm) dia., 9" (229mm) length shrink 5. tube over the splice. Shrink with heat gun until completely shrunk. A uniform bead of glue should appear around the ends of the shrink tube.



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# Always use genuine Easy Heat SR Trace connection kits

PRODUCT		DESCRIPTION
SRP		The CSA Approved Power Connection 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. For pipe tracing applications or Easy Heat's SR51J and SR52J heating cables for roof & gutter deicing applications. This kit provides <i>The junction box is not included in this kit</i> .
SRPCK	No.	UL Listed and CSA Approved Power/Splice Connection Kit. Provides heat shrink tubing based power connection of one or two cables into customer supplied junction box. Also provides heat shrinkable end seals. Can also be used for heating cable to heating cable splice using a customer supplied junction box.
SRST	Minu	UL Listed and CSA Approved In-line Splice Connection Kit. Provides heat shrink tubing based in-line splice connection of two or three heating cables. Junction box is not required. Each kit performs two sets of splices.
SRES		UL Listed and CSA Approved End Seal Kit. Provides materials necessary to perform a moisture proof end seal of the heating cable circuit. Each kit contains 5 end seals.
SRPCRG	< And	UL Listed and CSA Approved Power Connection Kit. Provides materials necessary to perform a water- tight power connection into a customer supplied junction box. Also provides heat-shrinkable moisture proof end seal of the heating cable circuit. One SRPCRG is required per cable to J-Box connection.
SRSRG		UL Listed and CSA Approved Roof and Gutter In-line Splice Kit. Provides materials necessary to perform a splice of two roof and gutter heating cables. Each kit contains one splice.
ZH-C		Roof Clips and Spacers. Used to attach heating cable to roof and also to maintain cable spacing in gutters and down spouts. Each kit consists of 50 roof clips or 25 cable spacers.
DSH		Down Spout Hanger. Used to support heating cable where it enters and exits a down spout. Each kit contains two hangers.
		Pipe Tracing Roof & Gutter

#### Easy Heat SR Trace General Notes

- 1) Circuit breakers are sized per article 427-4 of NEC and CSA/CEC 62-114.
- 2) To operate 240 volt cables at 208, 220 or 270 volts, use the circuit adjustment factors shown in the Voltage Adjustment Tables.
- 3) When using two (2) or more heating cables of different wattage ratings in parallel on a single circuit breaker, use the 15A column amperage of 15 amps, divide it by the maximum footage to arrive at an amps/foot figure for each cable. Then calculate circuit breaker size for the combined loads. These amps/ foot factors include the sizing factor in (1) above.

Applications

4) The use of ground fault protection equipment for some heating cable applications is required by NEC and CSA/CEC. It is the customer's responsibility to ensure compliance of the complete installation with all appropriate electrical, building, etc., codes.

## **PRODUCT INSTALLATION**

All Easy Heat SR Trace self-regulating heating cables must be installed with appropriate connection kits. These connection kits are available from Easy Heat and contain detailed instructions for connecting the cable to the power supply and/or other heating cables. Agency approvals (UL or CSA) are only valid when appropriate kits are used to install the heating cable for the appropriate heating application. WARNING! FAILURE TO INSTALL EASY HEAT SR TRACE WITH APPROPRIATE CONNECTION KITS MAY RESULT IN FIRE, ELECTRIC SHOCK, PIPE FREEZE-UP OR OTHER DANGEROUS CONDITIONS.



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**De-Icing Applications**