SERGE BARIL HA-S

HAZARDOUS AREA SEAL KIT

INSTALLATION INSTRUCTIONS

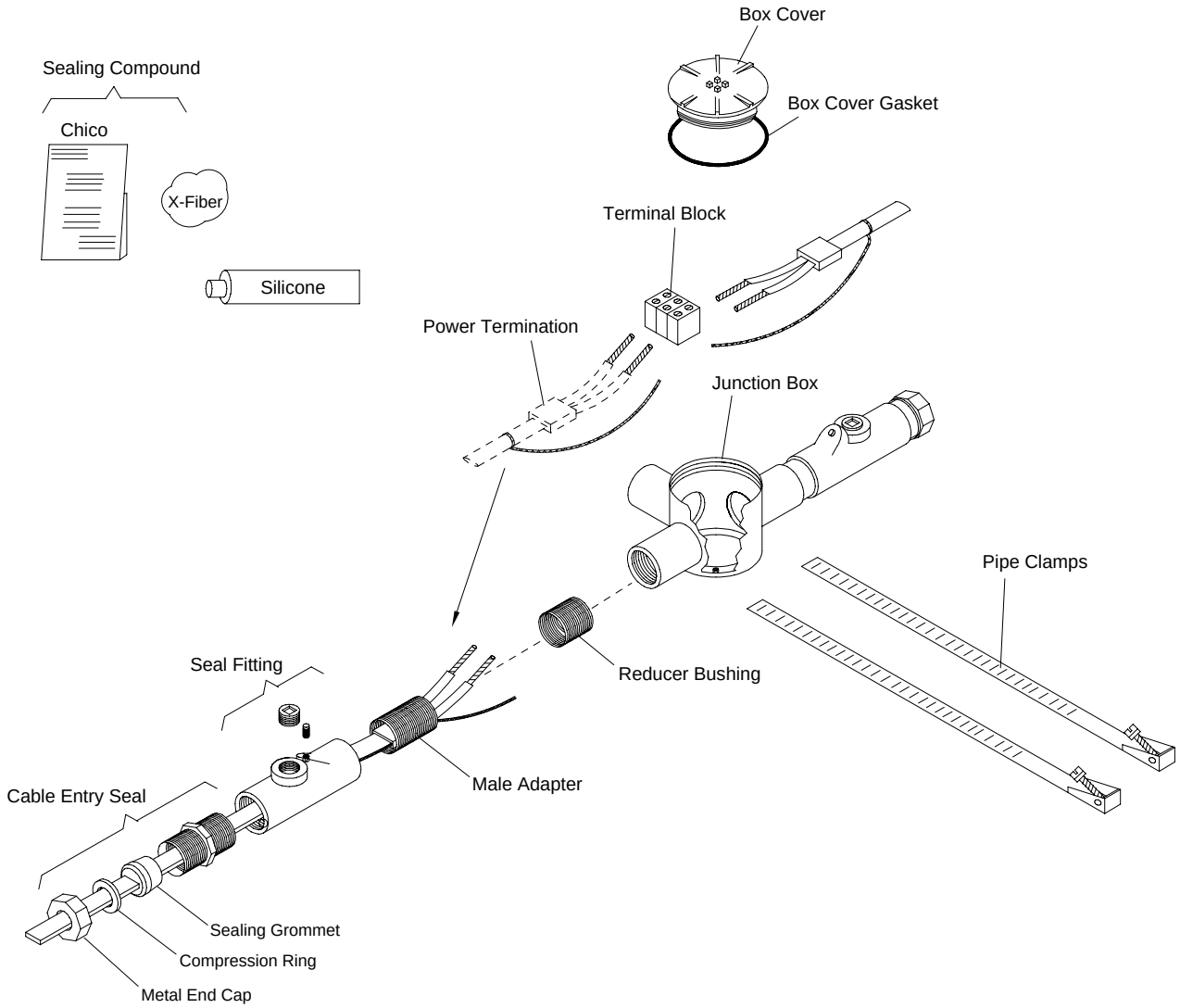
DIVISION 1 CABLE SPLICE TERMINATION & EXPLOSION PROOF SEAL

DESCRIPTION

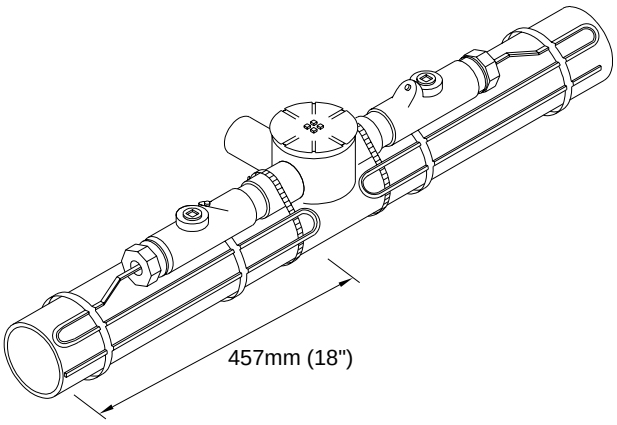
The HA-S Hazardous Area Seal Kit provides the cable termination and explosion proof seal parts needed to make all in-line electrical splice connections associated with Serge Baril self-regulating heater cables.

KIT CONTENTS

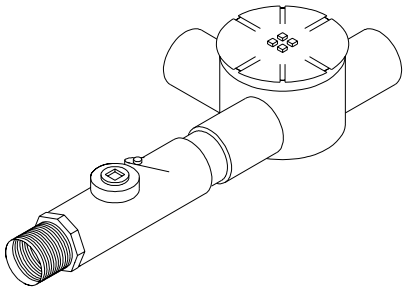
- 1 Junction Box
- 1 Box Cover Gasket
- 1 Tube of Silicone
- 1 Sealing Compound
- 1 X Fiber
- 2 Pips Clamps
- 2 Seal Fittings
- 2 Male Adapters
- 2 Reducer Bushings
- 2 Power Terminations
- 1 Terminal Block
- 2 Cable Entry Seals
- 1 Conduit Plug



JUNCTION BOX CONNECTION



❶ Allow 457mm (18”) of heater cable for each side to compensate for heat loss of the termination kit.

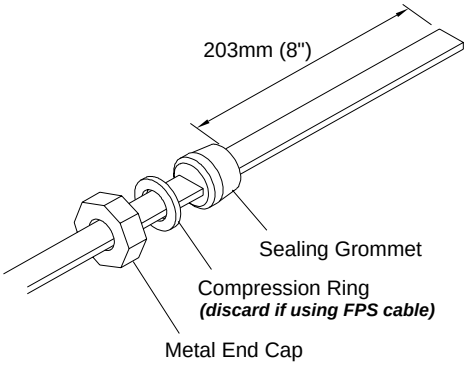


❷ Thread the reducer bushing into the junction box. Then thread the male adapter into the reducer bushing. Finally, thread the seal fitting into the male adapter. Tighten to a minimum of 5 full threads of engagement.

Note: If the seal fitting is to be mounted in vertical position, mount with the slanted small hole plug upwards.

❸ Remove the metal end cap, compression ring and sealing grommet from the cable entry seal and thread the cable entry seal into the seal fitting. Tighten to a minimum of 5 full threads of engagement.

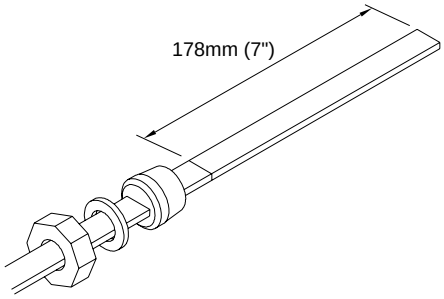
❹ Repeat steps 2-3 for the other seal fitting included in kit.



❺ Slide a metal end cap, *compression ring and sealing grommet over each heater cable. Position the sealing grommet 203mm (8”) from each cable end.

***FOR FPS HEATER CABLES ONLY:**
Discard the compression ring and slide only the metal end cap and sealing grommet over the heater cable. Position the sealing grommet 203mm (8”) from cable end.

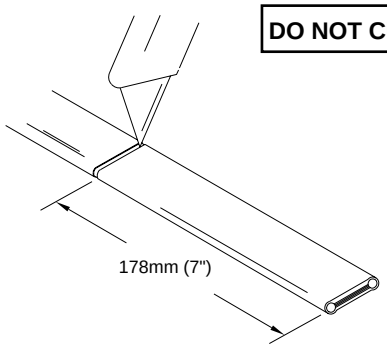
Note: Each metal end cap, compression ring *(if used)* and sealing grommet must be oriented to fit correctly into each cable entry seal.



❻ Prepare heater cables for termination. Proceed to *“Overjacket Stripping Procedures”*, sheet 3 of 8.

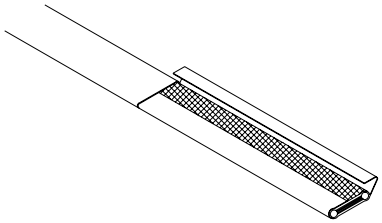
OVERJACKET STRIPPING PROCEDURES

⚠ WARNING:
DO NOT CUT BRAID

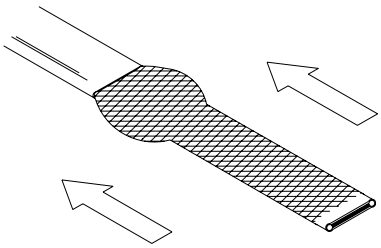


❶ Lightly cut around heater overjacket 178mm (7") from the end. Bend cable to break overjacket.

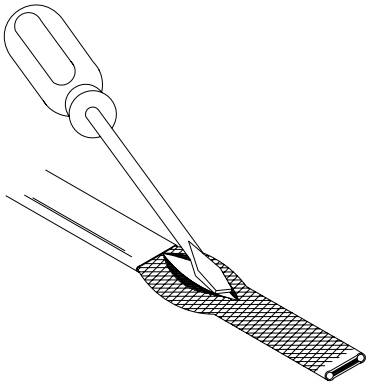
❷ Lightly cut overjacket up the center between first cut mark and the cable end. Bend cable to break overjacket.



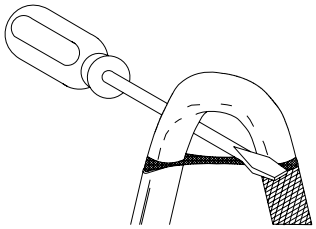
❸ Remove overjacket from heater cable.



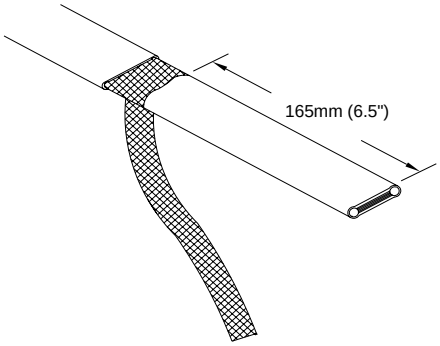
❹ Move braid back toward the overjacket, creating a bulge.



❺ At the bulge, separate the braid to make an opening.



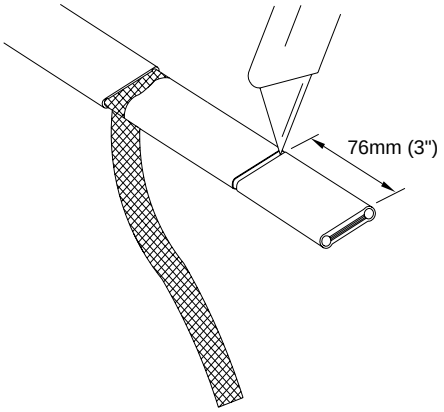
❻ While bending the heater cable, work it through the braid opening.



❼ Pull the braid tight.

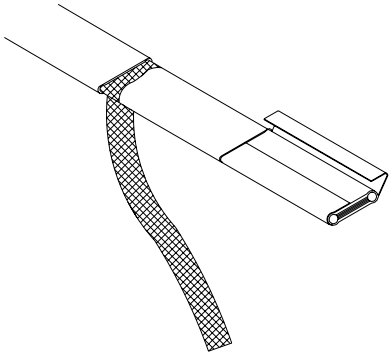
❽ Proceed to *"Outer Jacket Stripping Procedures",* sheet 4 of 8.

OUTER JACKET STRIPPING PROCEDURES

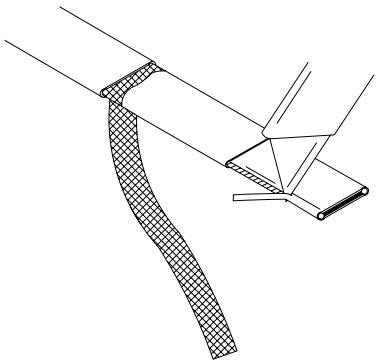


❶ Lightly cut around heater outer jacket 76mm (3") from the end. Bend cable to break outer jacket.

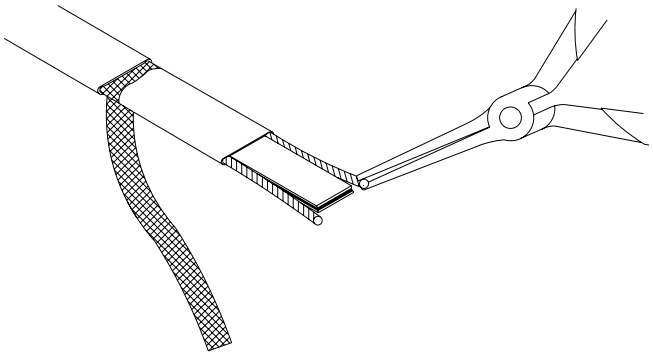
❷ Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.



❸ Remove the jacket from the heater cable.

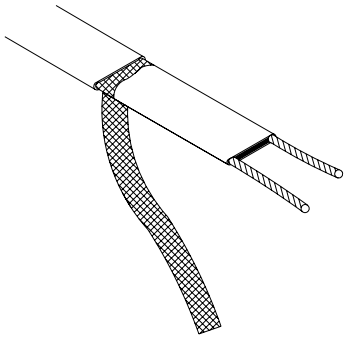


❹ Shave the core material from the outside of each bus wire.



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

❻ Remove exposed core material.



❼ Cut 6mm (0.25") off the end of each bus wire.

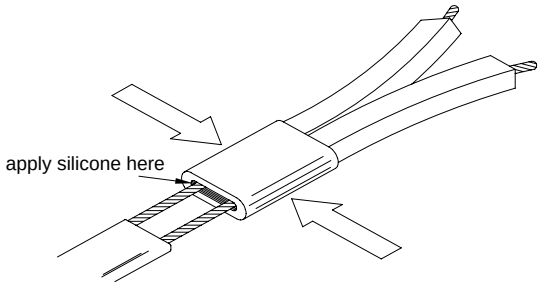
❽ Proceed to *"Power Termination",* sheet 5 of 8.

⚠ WARNING:
DO NOT CUT BUS WIRES

POWER TERMINATION

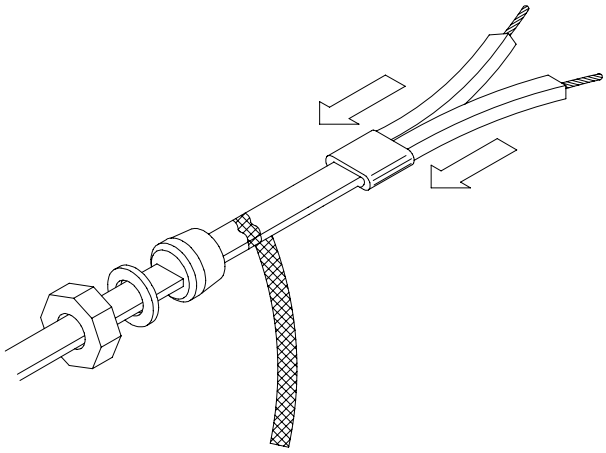
⚠ WARNINGS:

- **Bus wires must not touch or cross while inserting into power termination.**
- **Only power terminations specifically approved for the vendors style and type of heater cable must be used.**



❶ Insert bus wires into power termination.

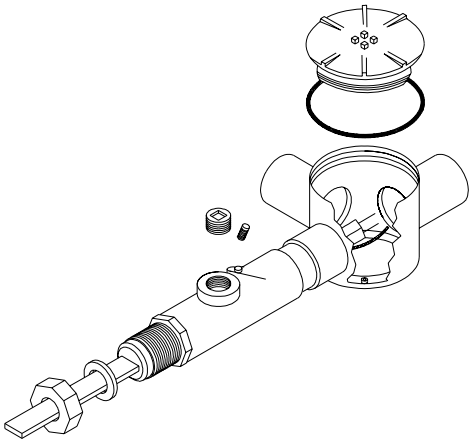
❷ Squeeze power termination opening and fill with silicone.

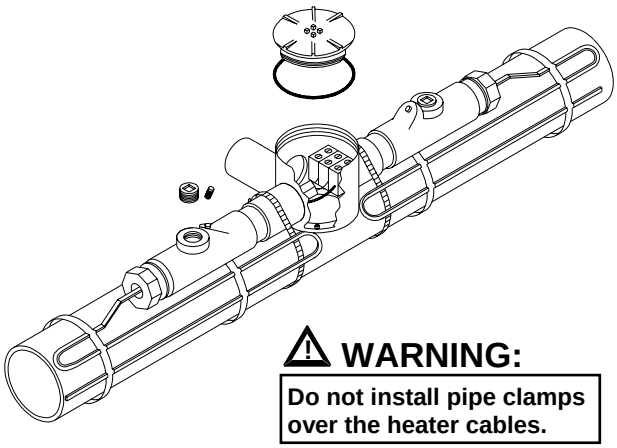


❸ Push power termination to overlap jacket.

❹ Proceed to *"Seal Fitting Installation",* sheet 6 of 8.

SEAL FITTING INSTALLATION



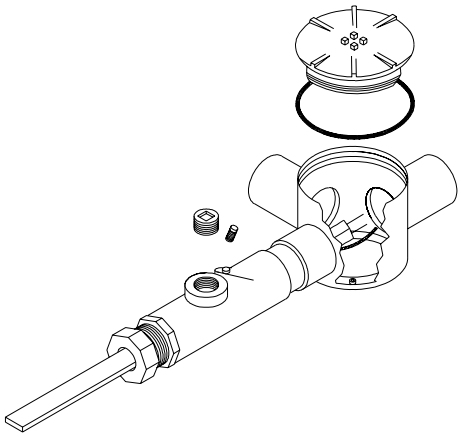


⚠ WARNING:

Do not install pipe clamps over the heater cables.

❶ Remove box cover and box cover gasket from junction box, place a power termination through each cable entry seal and seal fitting. Slide forward until the sealing grommet is flush with the entry seal.

Note: The heater cable must be positioned in the seal fitting so the braid transition point is visible through the seal fitting opening. *See Detail "A" on sheet 8 of 8 for example.*



❷ Slide the compression ring *(if used)* and metal end cap forward and thread onto the cable entry seal. Tighten to 51 foot pounds.

❸ Repeat steps 1-2 for the other seal fitting included in kit.

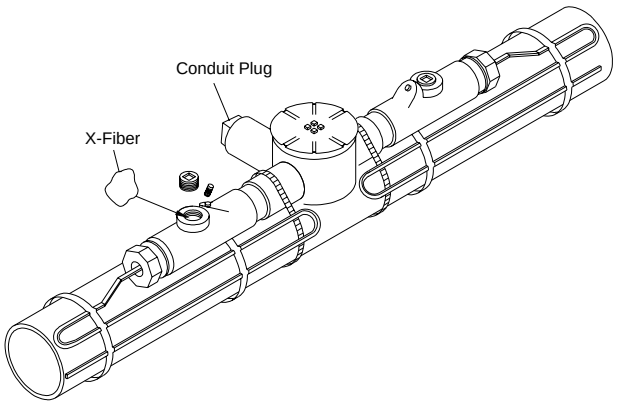
❹ Mount the junction box to pipe using pipe clamps inlcuded.

❺ Connect bus wires to terminal block. Connect ground braid from both heater cables to the green ground screw.

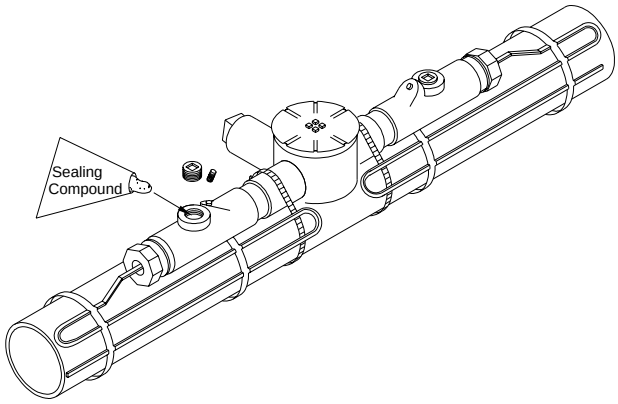
❻ Place the box cover gasket and box cover onto the junction box and plug the unused conduit opening using the conduit plug included in kit.

❼ Proceed to *"Sealing Compound Procedure",* sheet 7 of 8.

SEALING COMPOUND PROCEDURE

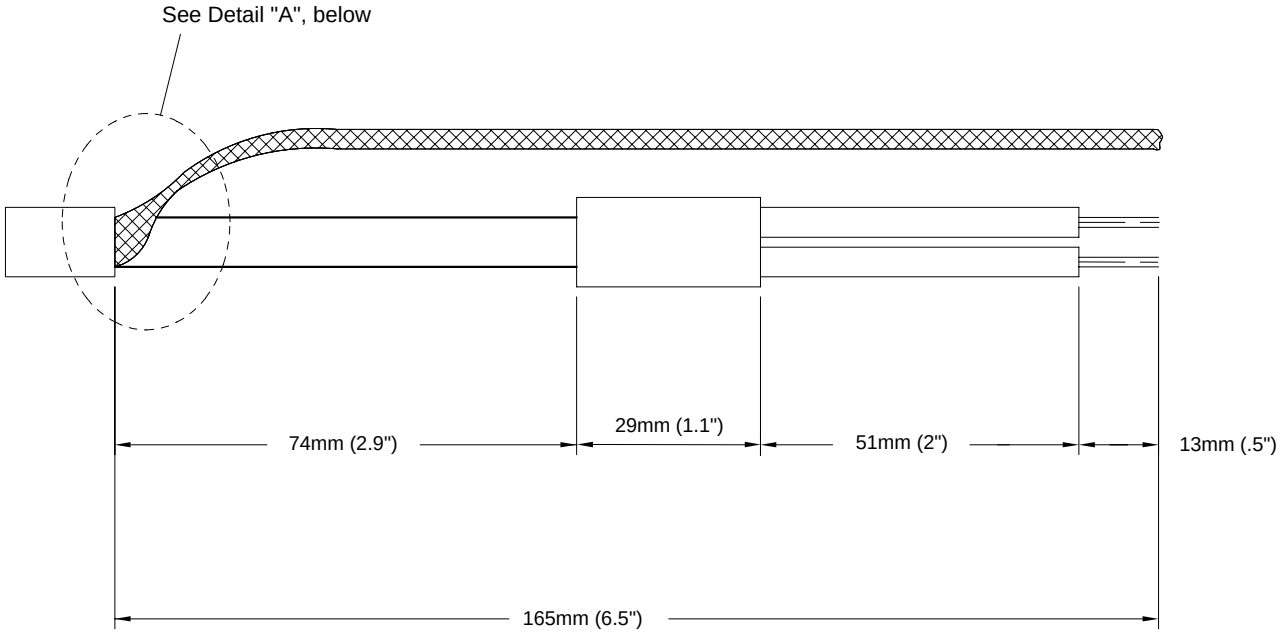


❶ Center the heater cable inside the conduit opening. Using the X fiber, pack around the heater cable forming a dam to hold the sealing compound.

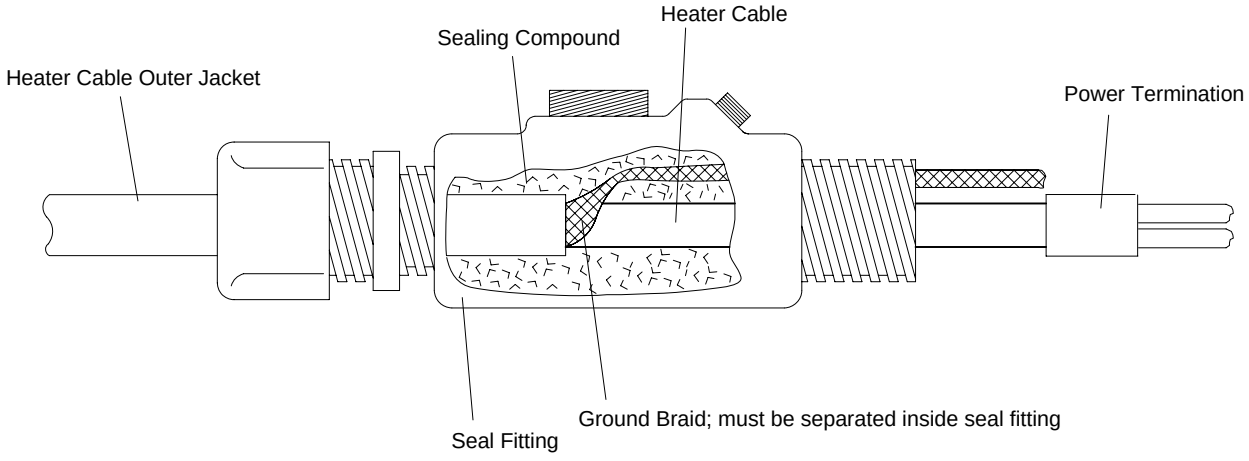


❷ Mix the sealing compound according to instructions on the pouch, ***(knead to mix liquid and powder in pouch).*** Snip off a corner of the pouch and fill each seal.

TEMPLATE



DETAIL "A"



SERGE BARIL & ASS. INC.
5310 des Laurentides Blvd., Auteuil, Laval, Canada H7K 2J8
Tel (450) 622-7587 Fax (450) 622-7869