HASK-S HAZARDOUS AREA SEAL KIT

FOR DIVISION 1 CABLE SPLICE TERMINATION & EXPLOSION PROOF SEAL

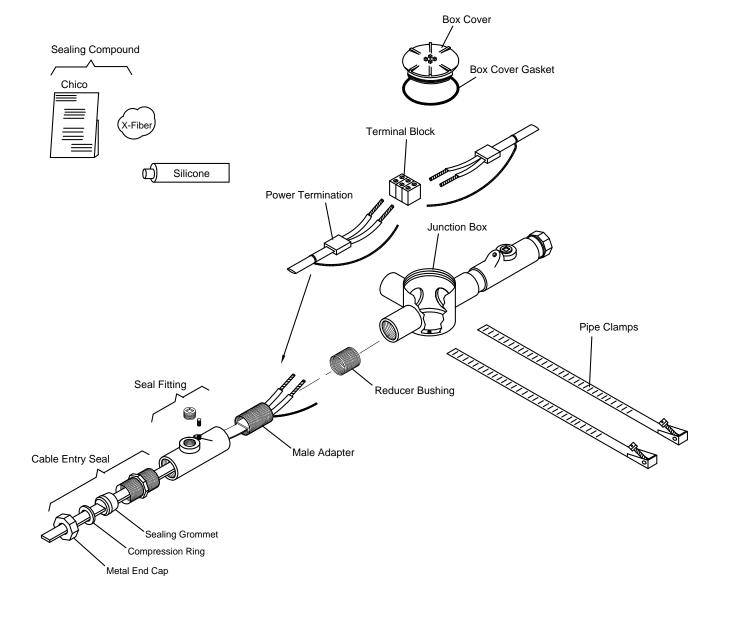
INSTALLATION INSTRUCTIONS

DESCRIPTION

The HASK-S Hazardous Area Seal Kit provides the cable termination and explosion proof seal parts needed to make all the in-line splice electrical connections associated with all Nelson Heat Tracing Systems' self-regulating heater cables. Minimum installation temperature -40°C (-40°F).

KIT CONTENTS

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

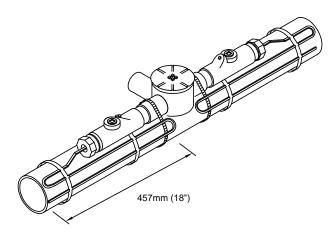


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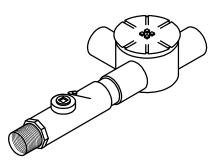
FOR DIVISION 1 CABLE SPLICE TERMINATION & EXPLOSION PROOF SEAL

INSTALLATION INSTRUCTIONS

JUNCTION BOX CONNECTION



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



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.

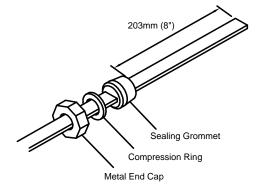
 Remove the metal end cap, black compression ring and sealing grommet from the cable entry seal and thread the cable entry seal into the seal fitting. Tighten to a minimum of 5 full threads of engagement.

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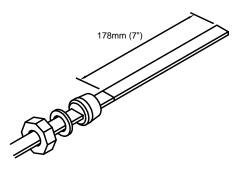
• Repeat steps 2-3 for the other seal fitting.

-



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

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



Prepare all heater cables for termination. Proceed to *"Overjacket Stripping Procedures"* on sheet 3.

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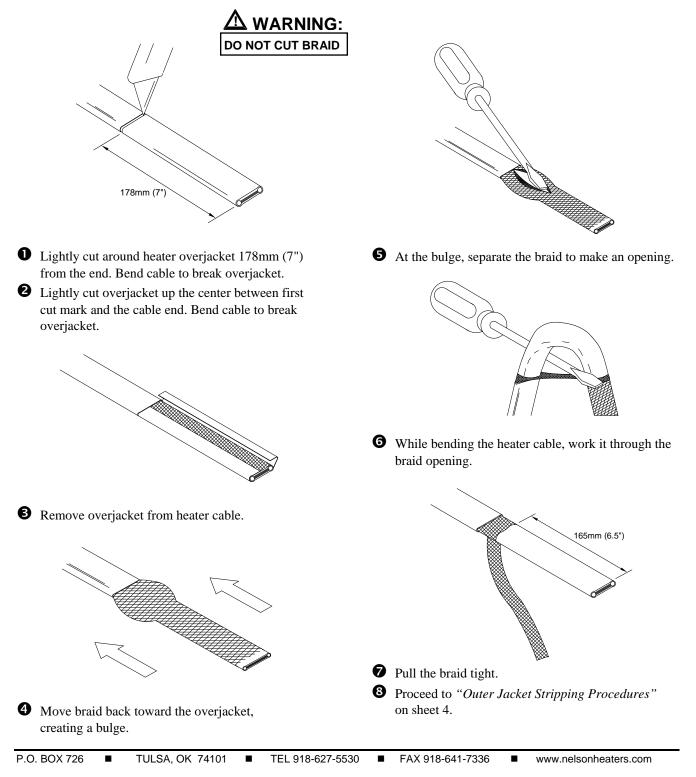
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HASK-S HAZARDOUS AREA SEAL KIT

FOR DIVISION 1 CABLE SPLICE TERMINATION & EXPLOSION PROOF SEAL

INSTALLATION INSTRUCTIONS

OVERJACKET STRIPPING PROCEDURES



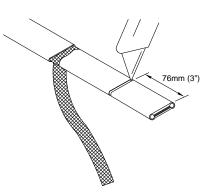
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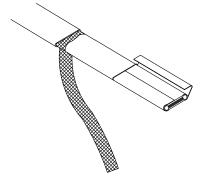
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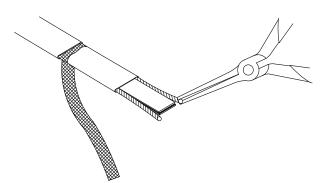
INSTALLATION INSTRUCTIONS

OUTER JACKET STRIPPING PROCEDURES

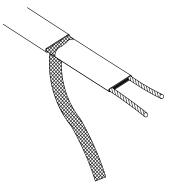


- Lightly cut around heater outer jacket 76mm (3") from the end. Bend cable to break outer jacket.
- 2 Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.



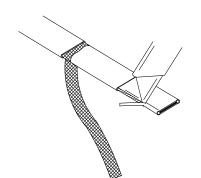


- Starting at the end, pull each bus wire away from the core material.
- **6** Remove exposed core material.



Cut 6mm (0.25") off the end of each bus wire.
Proceed to "*Power Termination*" on sheet 5.

3 Remove the jacket from the heater cable.





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

HASK-S HAZARDOUS AREA SEAL KIT

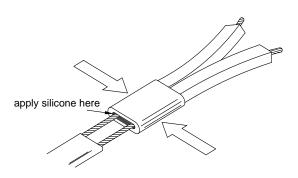
FOR DIVISION 1 CABLE SPLICE TERMINATION & EXPLOSION PROOF SEAL

INSTALLATION **INSTRUCTIONS**

POWER TERMINATION

VARNING:

- 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.



1 Insert bus wires into power termination.

2 Squeeze power termination opening and fill with silicone.

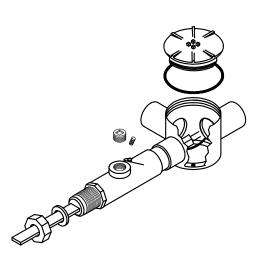
- **3** Push power termination to overlap jacket. **4** Proceed to *"Seal Fitting Installation"* on sheet 6.

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FOR DIVISION 1 CABLE SPLICE TERMINATION & EXPLOSION PROOF SEAL

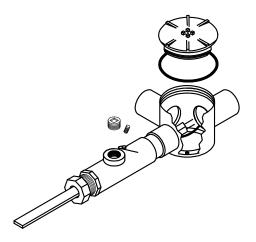
INSTALLATION INSTRUCTIONS

SEAL FITTING INSTALLATION



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 for example.

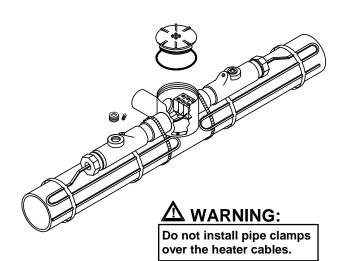


Slide the compression ring and metal end cap forward and thread onto the cable entry seal. Tighten to 51 foot pounds.

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B Repeat steps 1-2 for the other seal fitting.



- Mount the junction box to pipe using pipe clamps.
- Connect bus wires to the terminal block. Connect ground braid from both heater cables to green ground screw.
- Place the box cover gasket and box cover onto the junction box and plug the unused conduit opening using the conduit plug.

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Proceed to "Sealing Compound Procedure" on sheet 7.

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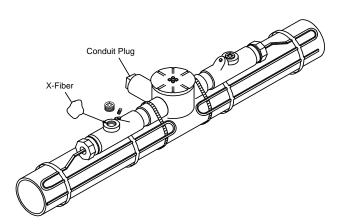
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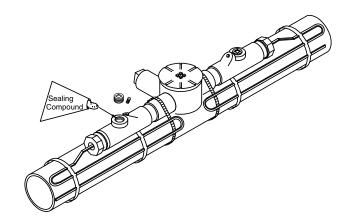
FOR DIVISION 1 CABLE SPLICE TERMINATION & EXPLOSION PROOF SEAL

INSTALLATION INSTRUCTIONS

SEALING COMPOUND PROCEDURE



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



• 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 the seal.

Δ warning:

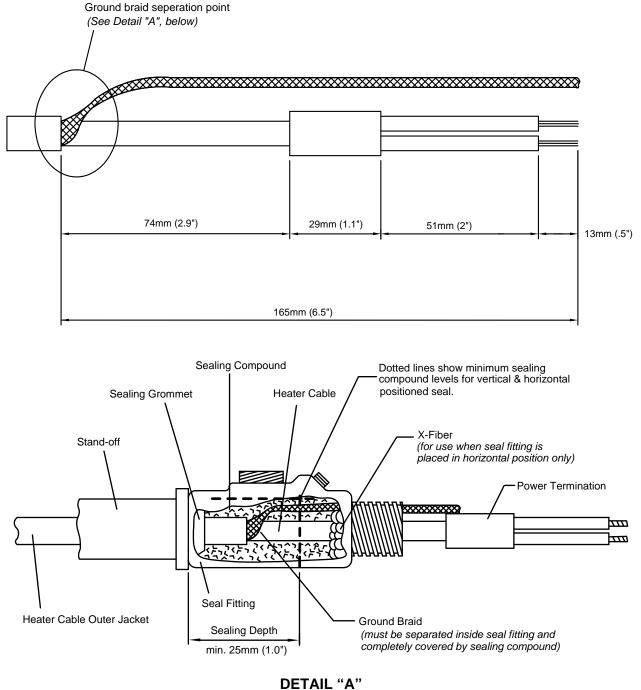
Sealing compound must completely cover the braid transition point. See Detail "A" on sheet 8 for reference.

HASK-S HAZARDOUS AREA SEAL KIT

FOR DIVISION 1 CABLE SPLICE TERMINATION & EXPLOSION PROOF SEAL

INSTALLATION INSTRUCTIONS

TEMPLATE



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