### NELSON<sup>™</sup> HEAT TRACING SYSTEMS HASK-E HAZARDOUS AREA SEAL KIT

#### FOR DIV. 1 CABLE TERMINATION & EXPLOSION PROOF SEAL

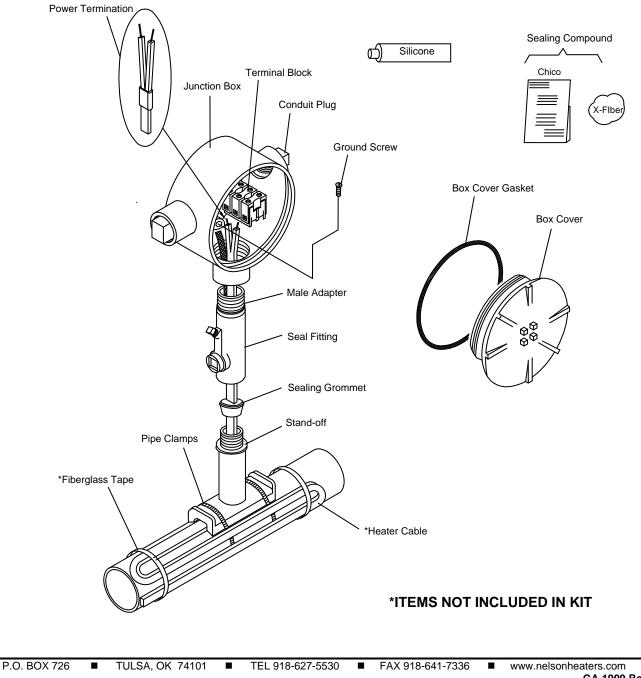
#### INSTALLATION INSTRUCTIONS

#### DESCRIPTION

The HASK-E Hazardous Area Seal Kit provides the cable termination and explosion proof seal parts needed to make the end of circuit electrical connections associated with Nelson Heat Tracing Systems' self-regulating heater cables. Minimum installation temperature  $-40^{\circ}$ C ( $-40^{\circ}$ F).

#### **KIT CONTENTS**

- 1 Junction Box
- 1 Tube of Silicone
- 1 Sealing Compound
- 1 Sealing Grommet
- 2 Conduit Plugs
- 2 Pipe Clamps
- 1 Stand-off
- 1 Power Termination
- 1 Terminal Block
  - 1 X Fiber
  - 1 Seal Fitting
  - 1 Male Adapter

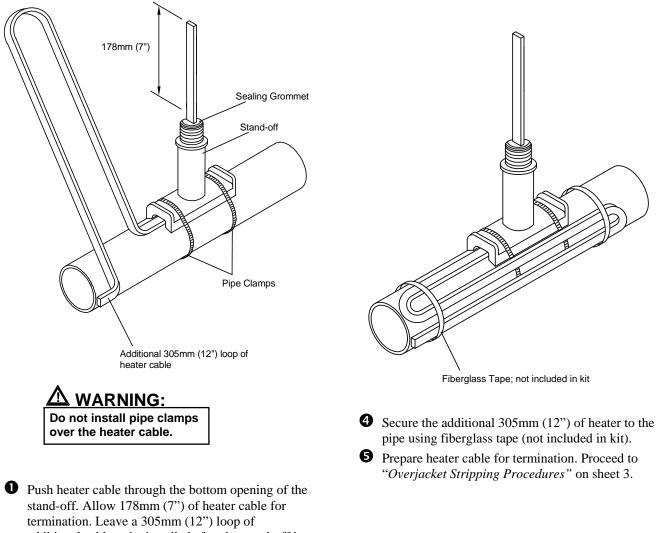


**HASK-E HAZARDOUS AREA SEAL KIT** 

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#### INSTALLATION INSTRUCTIONS

#### **STAND-OFF POSITIONING**



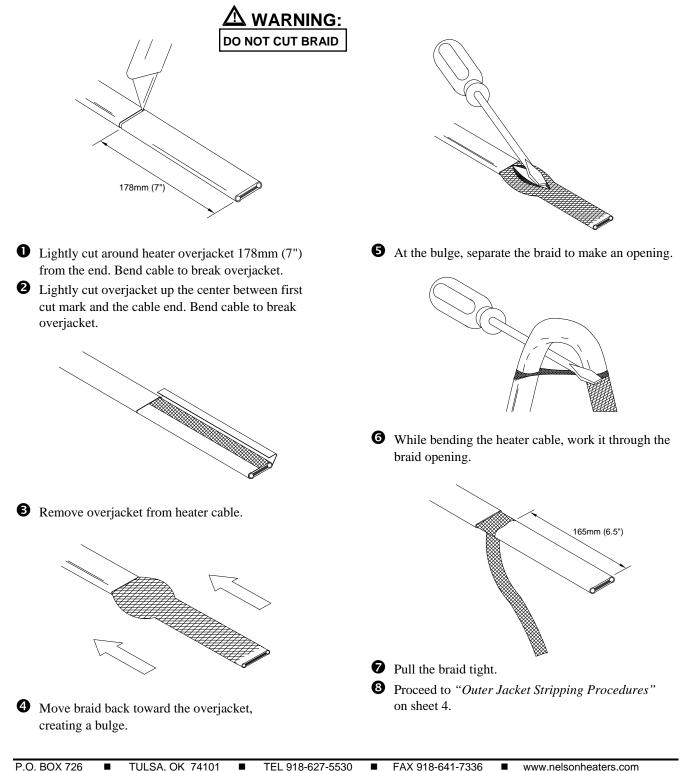
- additional cable to be installed after the stand-off is secured.
- **2** Mount stand-off to pipe using the pipe clamps included in kit.
- **3** Slide the sealing grommet over heater cable and position at stand-off.

**HASK-E HAZARDOUS AREA SEAL KIT** 

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#### INSTALLATION INSTRUCTIONS

#### **OVERJACKET STRIPPING PROCEDURES**



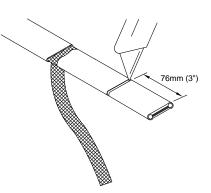
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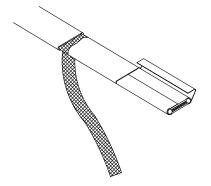
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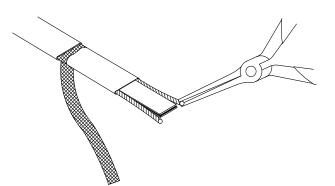
# INSTALLATION INSTRUCTIONS

#### **OUTER JACKET STRIPPING PROCEDURES**

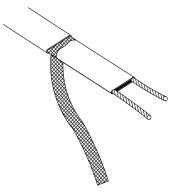


- Lightly cut around heater outer jacket 76mm (3") from the end. Bend cable to break outer jacket.
- 2 Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.



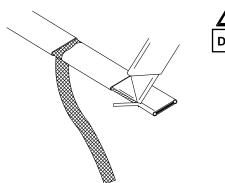


- Starting at the end, pull each bus wire away from the core material.
- **6** Remove exposed core material.



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.





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

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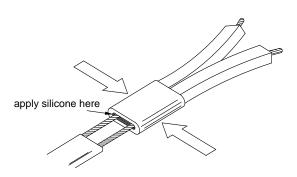
FOR DIV. 1 CABLE TERMINATION & EXPLOSION PROOF SEAL

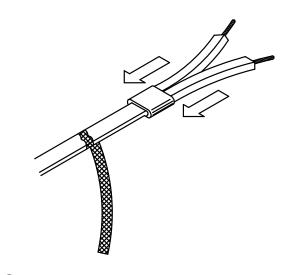
#### INSTALLATION INSTRUCTIONS

#### POWER TERMINATION

### <u> WARNING:</u>

- 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.





Push power termination to overlap jacket.
Proceed to "Seal Fitting Installation" on sheet 6.

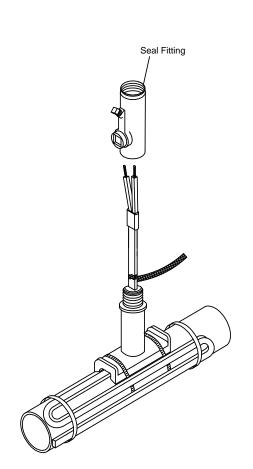
- **1** Insert bus wires into power termination.
- **2** Squeeze power termination opening and fill with silicone.

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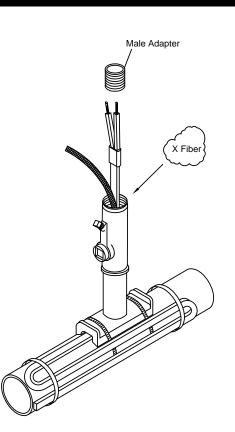
#### INSTALLATION INSTRUCTIONS

#### SEAL FITTING INSTALLATION



Slide seal fitting over the heater cable and braid, screw onto the stand-off by hand until snug fit.

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.



Note: If this kit is mounted in an orientation that would allow the sealing compound to flow out, place packing material (X Fiber) around the heater cable.

**2** Slide male adapter over the heater cable and braid, screw into seal fitting by hand until snug fit.



**B** Proceed to "Sealing Compound Procedure" on

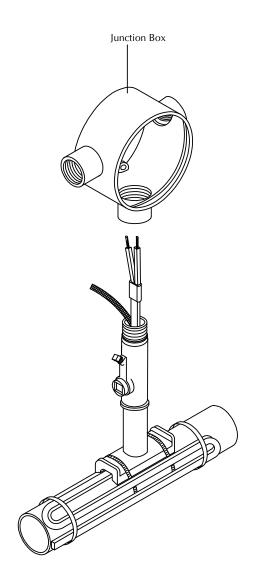
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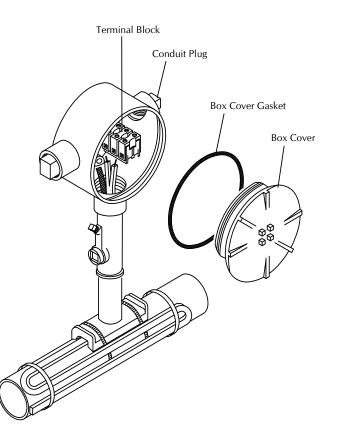
FOR DIV. 1 CABLE TERMINATION & EXPLOSION PROOF SEAL

#### INSTALLATION INSTRUCTIONS

#### SEALING COMPOUND PROCEDURE



• Place junction box over the heater cable and braid, screw onto male adapter until secure.



- Connect
- Connect bus wires to terminal block, one per terminal. Connect braid to green ground screw.
- Place the box cover gasket and box cover onto junction box. Plug the unused conduit openings with the conduit plugs.
- Mix sealing compound according to the instructions on the pouch (knead to mix liquid and powder in pouch). Snip off a corner of the pouch and fill the seal fitting.

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

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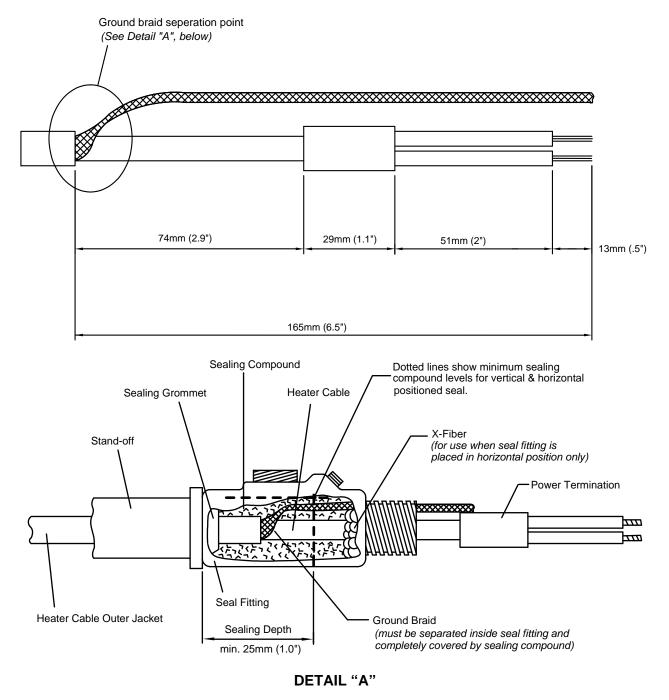
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#### INSTALLATION INSTRUCTIONS

#### TEMPLATE



Nelson Heat Tracing Systems products are supplied with a limited warranty. Complete Terms and Conditions may be found on Nelson's website at <u>www.nelsonheaters.com</u>.

## NELSON<sup>™</sup>

FM Division 1 Checklist for D1-LT and D1-HLT Self-Regulating Heater Cable

As required by the Factory Mutual approval process, fill out this form and return to:

Nelson Heat Trace (or) P.O. Box 726 Tulsa, OK 74101	Nelson Heat Trace Fax Number (918) 622-9308		
Company Name			
Purchase Order No.			
Circuit Reference (ID Number)			
Area Classification Auto Ignition Temperatu	'e		
Group			
Substance			
Heater Information Cable Type			
Voltage			
Temperature Identification Number (T-rating)			
Termination Kits Power Connection			
End Seal			
Splice Connection			
Tee Connection			
Ground Fault Equipment P Make and Model	rotection (Required)		
Device Trip Level (mA)			
Installation per Manufacturers Installation Instructions Initials:			
		<u>.</u>	
System Certification			
Prepared By	Company		Date
Prepared By	Company		Date

This completed form must be returned to Nelson to complete the certification process. A copy of this completed form should be kept for installation record retention purposes.

