HASK-E HAZARDOUS AREA SEAL KIT

FOR DIV. 1 CABLE TERMINATION & EXPLOSION PROOF SEAL

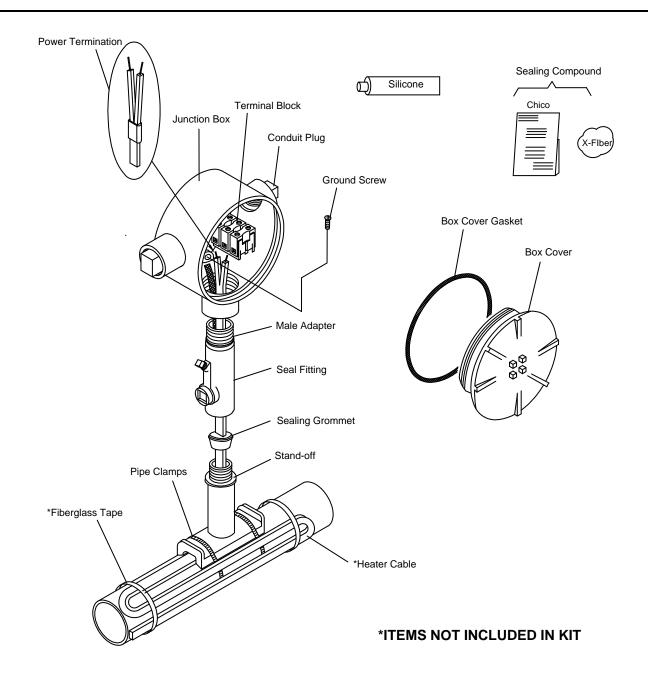
INSTALLATION INSTRUCTIONS

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°C (- 40°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

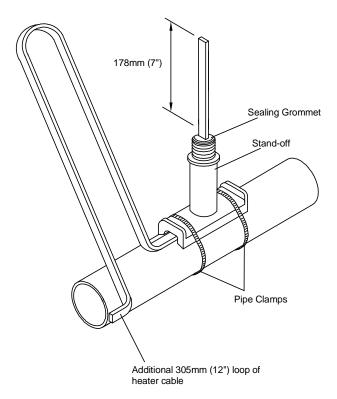


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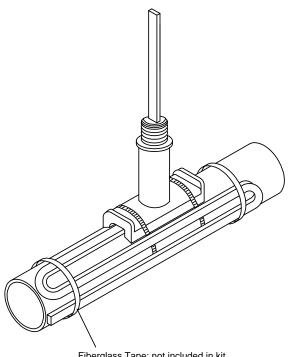
STAND-OFF POSITIONING





Do not install pipe clamps over the heater cable.

- **1** Push heater cable through the bottom opening of the stand-off. Allow 178mm (7") of heater cable for termination. Leave a 305mm (12") loop of 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.



Fiberglass Tape; not included in kit

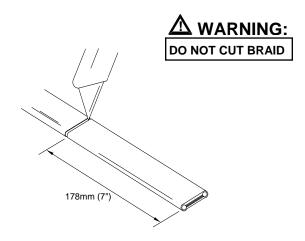
- **4** Secure the additional 305mm (12") of heater to the pipe using fiberglass tape (not included in kit).
- **5** Prepare heater cable for termination. Proceed to "Overjacket Stripping Procedures" on sheet 3.

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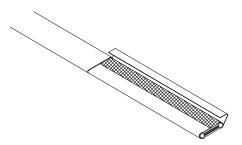
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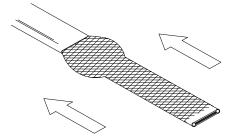
OVERJACKET STRIPPING PROCEDURES



- Lightly cut around heater overjacket 178mm (7") 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 overjacket.



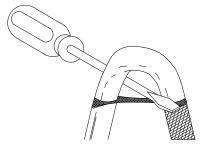
3 Remove overjacket from heater cable.



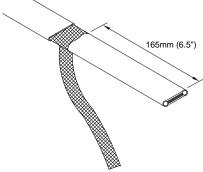
4 Move braid back toward the overjacket, creating a bulge.



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



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



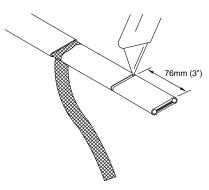
- **7** Pull the braid tight.
- **3** Proceed to "Outer Jacket Stripping Procedures" on sheet 4.

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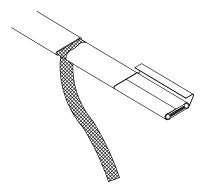
FOR DIV. 1 CABLE TERMINATION & EXPLOSION PROOF SEAL

INSTALLATION INSTRUCTIONS

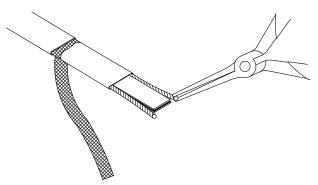
OUTER JACKET STRIPPING PROCEDURES



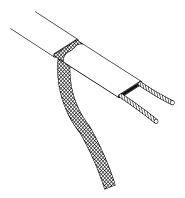
- Lightly cut around heater outer jacket 76mm (3") from the end. Bend cable to break outer jacket.
- 2 Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.



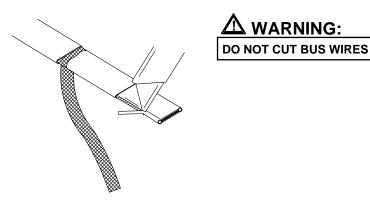
3 Remove the jacket from the heater cable.



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



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



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

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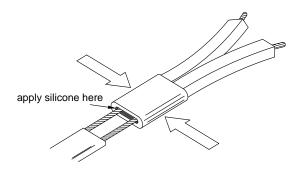
INSTALLATION INSTRUCTIONS

POWER TERMINATION

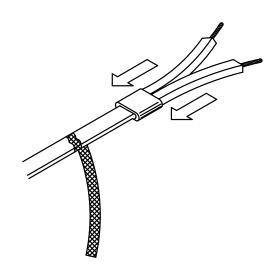
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WARNING:

- 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.



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



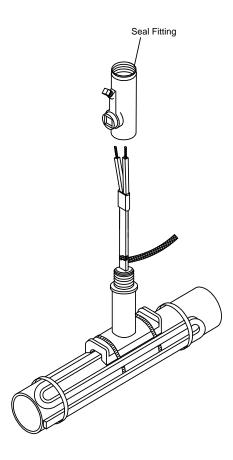
- **3** Push power termination to overlap jacket.
- **4** Proceed to "Seal Fitting Installation" on sheet 6.

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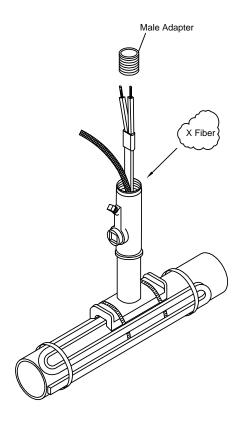
INSTALLATION INSTRUCTIONS

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.

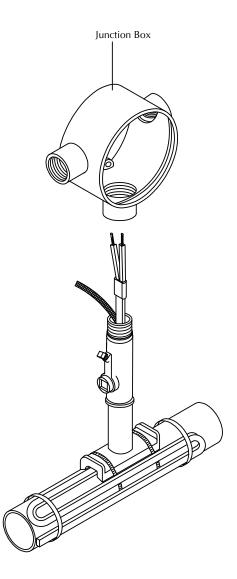
- 2 Slide male adapter over the heater cable and braid, screw into seal fitting by hand until snug fit.
- **3** Proceed to "Sealing Compound Procedure" on sheet 7.

HASK-E HAZARDOUS AREA SEAL KIT

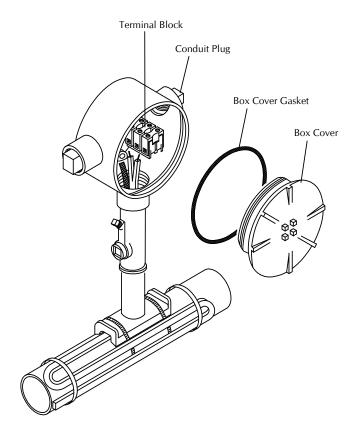
FOR DIV. 1 CABLE TERMINATION & EXPLOSION PROOF SEAL

INSTALLATION INSTRUCTIONS

SEALING COMPOUND PROCEDURE



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



- **2** Connect bus wires to terminal block, one per terminal. Connect braid to green ground screw.
- 3 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.

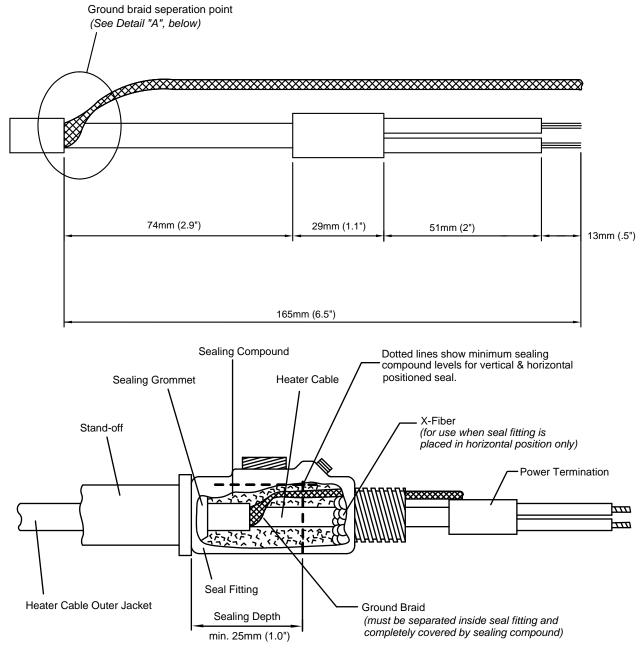
Sealing compound must completely cover the braid transition point. See Detail "A" on sheet 8 for reference.

HASK-E HAZARDOUS AREA SEAL KIT

FOR DIV. 1 CABLE TERMINATION & EXPLOSION PROOF SEAL

INSTALLATION INSTRUCTIONS

TEMPLATE



DETAIL "A"

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

NELSON[™]

Nelson Heat Trace

FM Division 1 Checklist for D1-LT and D1-HLT

(or)

Self-Regulating Heater Cable

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

Nelson Heat Trace

P.O. Box 726 Tulsa, OK 74101	Fax Number (918) 622-930	8	
Company Name			
Purchase Order No.			
Circuit Reference (ID Num	ber)		
Area Classification Auto Ignition Temperatu	ıre		
Group			
Substance			
Heater Information Cable Type			
Voltage			
Temperature Identification	on Number (T-rating)		
Termination Kits Power Connection			
End Seal			
Splice Connection			
Tee Connection			
Ground Fault Equipment F Make and Model	Protection (Required)		
Device Trip Level (mA)			
Installation per Manufactu	rers Installation Instructions	Initials:	
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.

