

# ARCTIC TRACE<sup>®</sup>

## INSTALLATION INSTRUCTIONS

### 352C Hazardous Location Water Proof Strain Relief Kit for TL Series Heating Cable



SEALING GLAND



SEALING PAST

**WARNING:** to prevent electric shock or fire, this product must be installed correctly. Water ingress must be avoided before and during the installation. Ground fault equipment protection must be used on each heating cable circuit as arcing may not be stopped by conventional circuit breakers. Before installing the product read the instructions completely. Do not use substitute parts or vinyl electrical tape.

Kit Contents	
1	3/4" Sealing lock nut
1	352C 3/4" Hazardous Water Proof Strain Relief Sealing Gland



Class 1, Div. 2, Groups C, D; Class II, Div. 1 and 2  
Groups E, F, and G, Class III,  
Maximum 240Vac

# ARCTIC TRACE<sup>®</sup>

## 3/4" NPT waterproof pressure connector / strain relief for Heat trace wire *with* and *without* ETFE Overall jacket *Installation Information*

*Caution should be taken when installing TL series heat trace with or without overall jacket inside pipes, tank, drains or vents. To insure a water tight seal follow installation instruction carefully. Failure to do so may cause liquid to leak from the pressure fitting and may enter the power connection.*

### **Instructions to install pressure fitting for use with TL series submersible heat trace manufactured WITHOUT ETFE Overall jacket**

- Install heat trace in pipeline or vessel with 352C waterproof end cap attached. Leave ample room to make electrical connections. Disassemble the pressure fitting. Apply Teflon paste to the 3/4" MNPT connection and screw it into your 3/4" FNPT pipe, tank or vessel.
- Open the Teflon paste supplied and apply the paste to the exposed metal braid.



**du** *Alaska Incorporated*

- Massage the Teflon paste into the exposed metal braid. Make sure the paste covers the metal braid completely and fills all the holes in the metal braid approximately 2" long as seen in Fig 1.

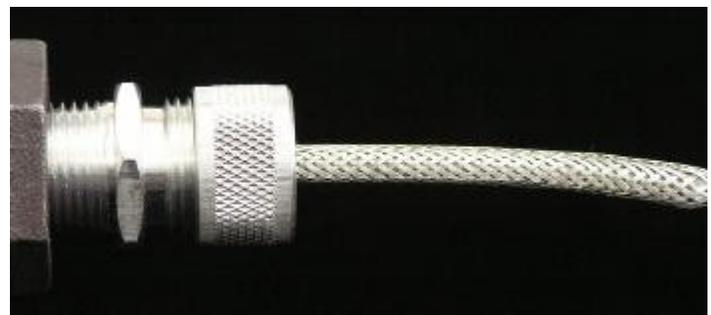
- Pull ground braid down along wire and cut off about 4" of wire under ground braid. Pull ground braid back over end of wire making braid diameter small enough to pass through grommet. Slide the rubber grommet over the metal braid placing it in the center of the prepared area.

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- Reassemble the union assembly making make sure the rubber grommet stays in place centered in the prepared area and does not move on the heat trace during this assembly.

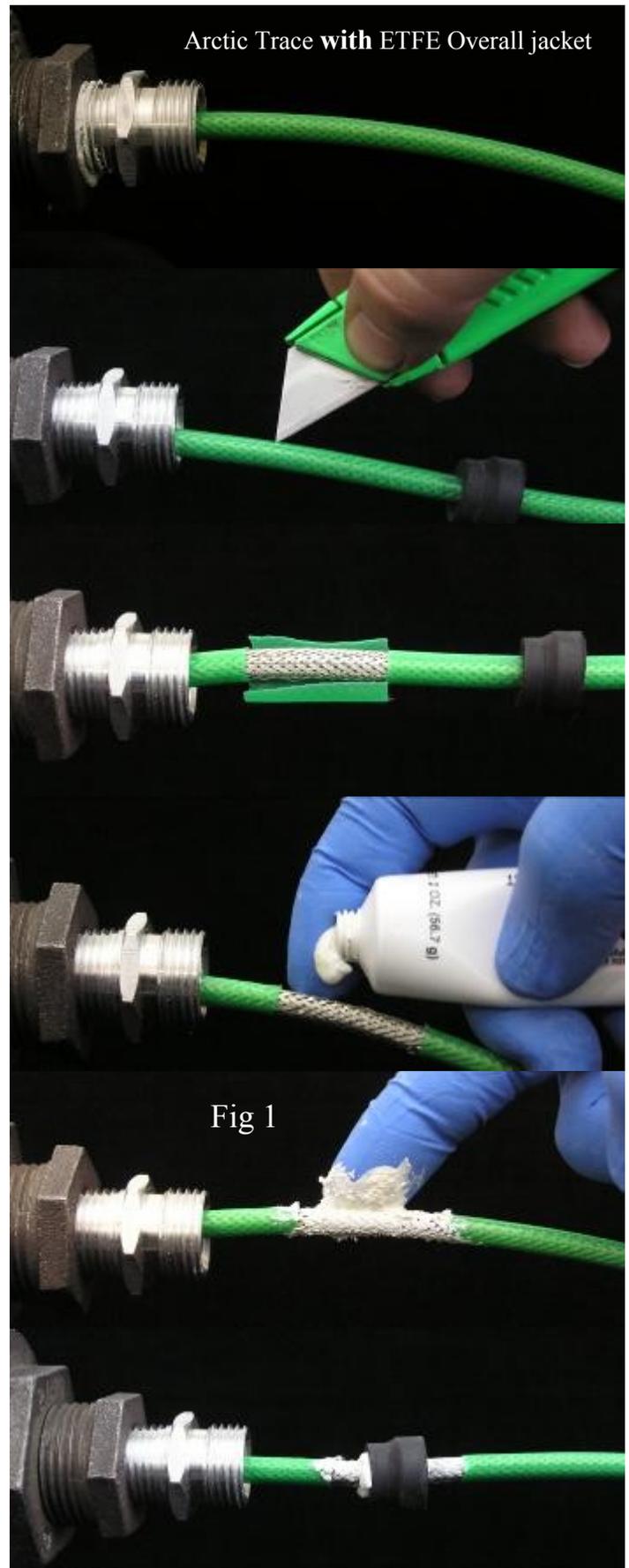
- Completely tighten the union assembly compressing the rubber grommet making a water tight seal.

- Test the assembly for leaks before making any electrical connection. If leaks occurs repeat the field repair process until no leaks are found.



## Instructions to install pressure fitting for use with TL series submersible heat trace manufactured WITH ETFE Overall jacket

- Install heat trace in pipeline or vessel with 352C waterproof end cap attached. Leave ample room to make electrical connections. Disassemble the pressure fitting. Apply Teflon paste to the 3/4" MNPT connection and screw it into your 3/4" FNPT pipe, tank or vessel.
- Slide the rubber grommet on the heat trace. Using a clean sharp blade cut a 2" slit along the heat trace outer jacket in the area where you are going to install the rubber grommet. Use **extreme caution not to damage or cut the metal braid.**
- Carefully remove the overall jacket from the repair area. Use **extreme caution not to damage or cut the metal braid.**
- Open the Teflon paste supplied and apply the paste to the exposed metal braid.
- Massage the Teflon paste into the exposed metal braid. Make sure the paste covers the metal braid completely and fills all the holes in the metal braid as seen in Fig 1.
- Slide the rubber grommet over the metal braid placing it in the center of the prepared area.



continued **WITH** ETFE Overall jacket

- Reassemble the union assembly making make sure the rubber grommet stays in place centered in the prepared area during this assembly.



- Completely tighten the union assembly compressing the rubber grommet making a water tight seal.
- Test the assembly for leaks before making any electrical connection. If leaks occurs repeat the field repair process until no leaks are found.



Hazardous Locations Accessories:

352C	Hazardous Locations 3/4" water proof strain relief pressure fitting.	TXR	Thermostat
EYS2116SP	Hazardous Locations seal off kit.	TXL	Thermostat
GUAT26C	Hazardous Locations power connection kit	GU	Power Connection and splice Boxes
GUP	Hazardous Locations Junction boxes	FXC	Power Connection and splice Boxes
FXCS	Pilot Light	FXS	Tumbler Switches
305C	Hazardous Locations water proof end seal termination kit.	FXS	Ground Fault Interrupter
		FXB	Power Connection and Splice Boxes
		206C or 207C	Ordinary location water proof strain relief pressure fitting

**CAUTION**

This product must only be installed by a qualified electrician, who fully understands electrical equipment placement, and must never under any circumstance be placed in service without the use of an adequate ground fault circuit interrupter to protect personnel from shock or injury.

After this equipment has been placed in service it must be tested to ensure all wiring and safety devices are working.

All National, State, and Local Electrical Codes must be followed.

If this product is not installed properly fire, death, or injury may result.



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