

HEAT TRACE CABLE LIGHTED POWER BOX KIT

- PBK-L-EHT is used with POWER TRACE heating cables.
- For connecting 1 heating cable.
- Nema4x/IP66, Ingress Protection against dust and water.
- Available for use in non-hazardous areas.

Product Overview

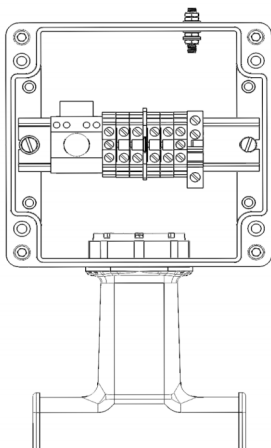
- ◆ The PBK-L-EHT kit is designed to connect power to POWER TRACE heating cables.
- ◆ The PBK-L-EHT integrates the functions of connection kits and insulation entries. The rugged stand protects the heating cable and allows for up to four inches (100mm) of thermal insulation.
- ◆ The cold-applied core sealer does not require a heat gun for installation, so no hot work permit is necessary.
- ◆ RTV curing sealant or silicone-free, non-curing sealant may also be used to allow for easy installation and re-entry for maintenance.
- ◆ Compared with other systems, this connection kit significantly reduces installation time.
- ◆ The kit contains all the necessary materials for a complete installation except for two pipe straps, and fiberglass tape which must be ordered separately.

Product Specification

OPERATING TEMPERATURE -40°F~149°F, (-40°C~65°C)

PBK-L-EHT SIZE L x W x H (mm), 160 x 160 x 90

MATERIAL Glass Reinforced Polyester, Fire Retardant

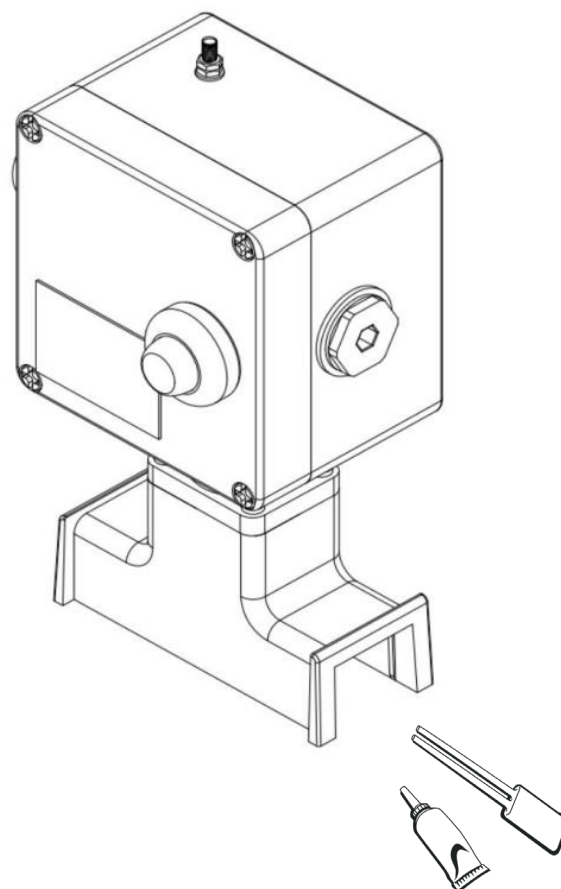


DANGER

DO NOT OPEN WHEN ENERGIZED

DISCONNECT ALL SUPPLY POWER AT SOURCE BEFORE
MAKING POWER CONNECTIONS

A person who has not read and understood all operating
instructions is not qualified to service this product.



Tools Required

- Wire Cutter
- Slotted Screwdriver
- Utility Knife Stainless
- Scissors
- Locknut Wrench
- Needle Nose Pliers

Additional Materials Required

- Pipe Straps
- Fiberglass Fixing Tape

Installation Instructions

1. Open the seal fitting as shown in figure 1 below. Then push with force heating cable through the strain relief grommet and body until approx. 12" of cable is exposed to make up cable termination.

Example

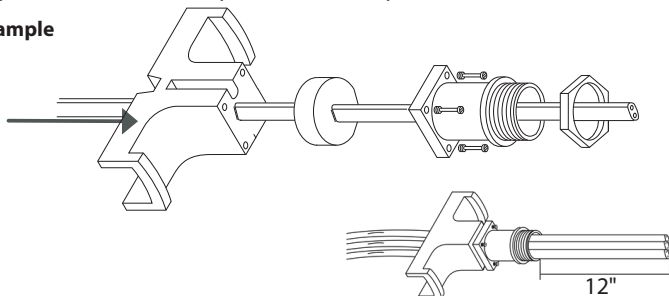


Figure 1.

2. Prepare the heating cable for termination (see figure 2). Start by making a mark 6.0" from end of cable. Remove the outer jacket by lightly cutting completely around the jacket along the mark made. Next being careful not to cut the metal braid or inner jacket, cut along the center of the cable as shown below then bend the cable to break and remove outer jacket from the heating cable.

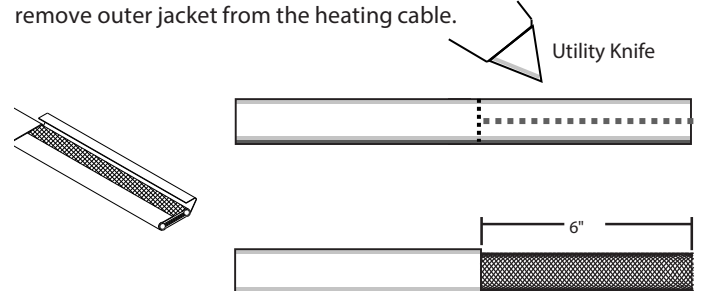
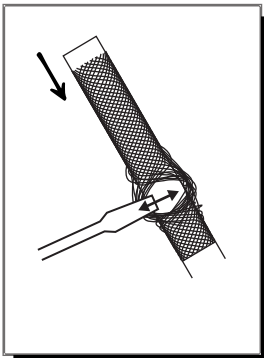
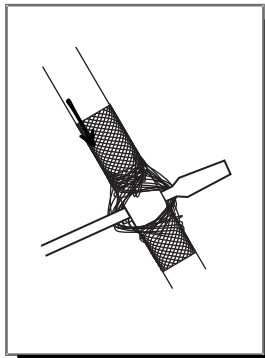


Figure 2.

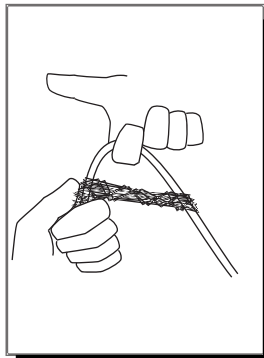
3. Move braid back toward the outerjacket, creating a bulge. At the bulge, separate the braid to make an opening.



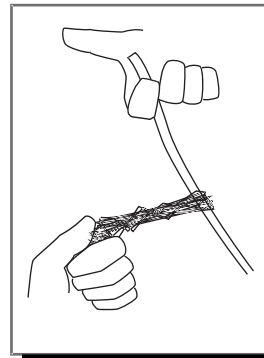
4. Carefully work a flat edge screwdriver between braid and inner jacket of heating cable.



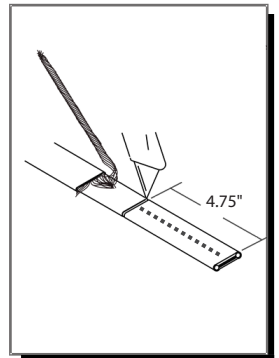
5. While bending, grab the heating cable and slide it through the braid opening.



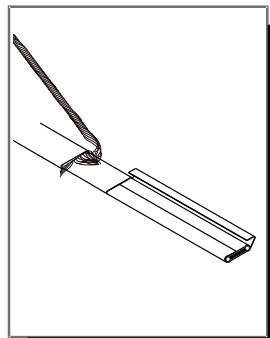
6. Pull the braid tight, twist into a pigtail and trim off ends of braid.



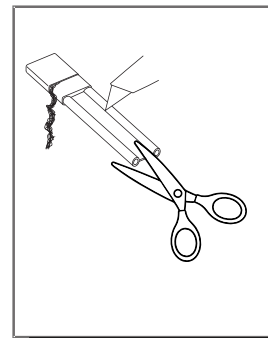
7. Lightly cut around cable insulation at 4.75" from the end of cable and then cut along the center between the first cut mark and the end of cable.



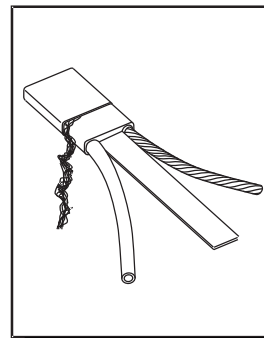
8. Bend cable to break inner jacket and remove insulation. DO NOT CUT DEEP INTO BUS WIRES.



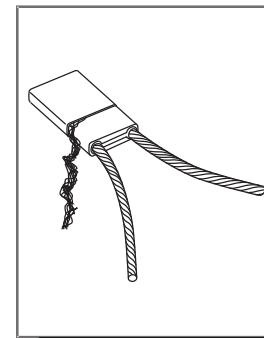
9. Remove center core and expose bus wires. DO NOT CUT THE BUS WIRES.



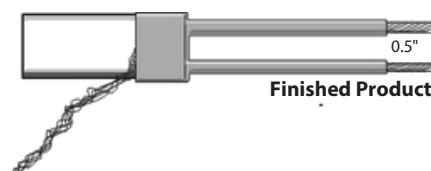
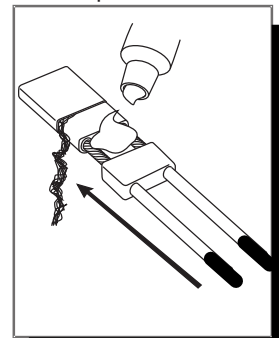
10. Peel back exposed wires from center core. DO NOT CUT THE BUS WIRES.



11. Inspect bus wires, clean off and straighten.

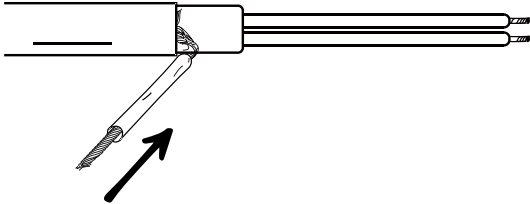


12. Apply a dab of RTV between bus wires then slide the boot over bus wires, leaving .5" of bus wires exposed.



Finished Product

13. Insert the braiding through the yellow-green tube.



14. Pull back the heating cables through the body leaving 5.0 inches exposed.

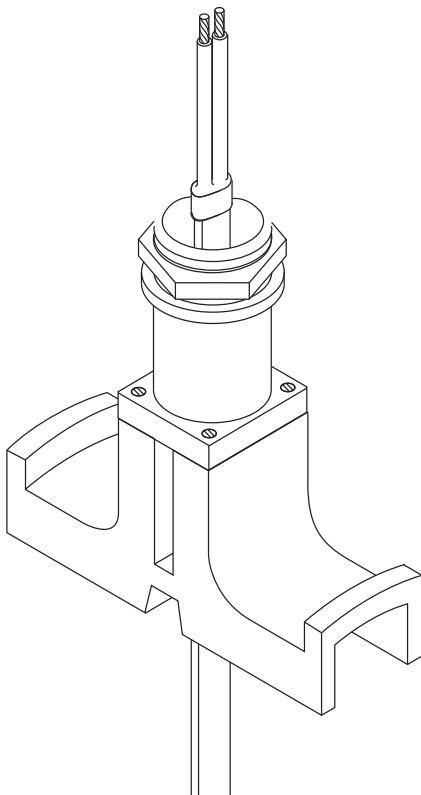


Figure 3.

15. Insert the cables through the lower entry of the junction box and tightly secure the junction box to the base using the provided lock ring. (See figure 4). Connect the heating cables and ground braid to the terminal block as shown. (If terminal block is removed, wire nuts may be used to terminate the heater cables to incoming power supply and ground wires.)

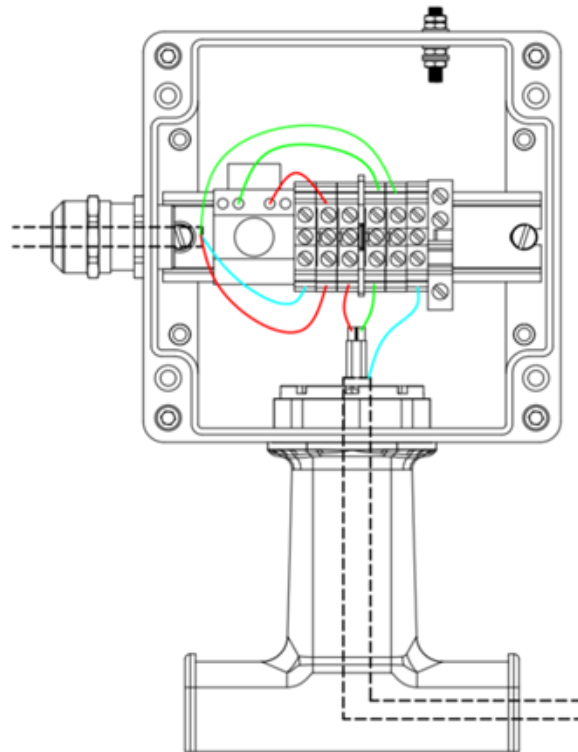
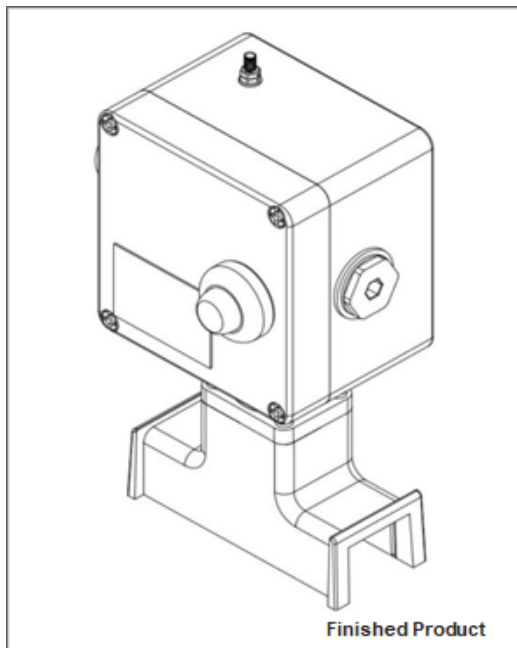
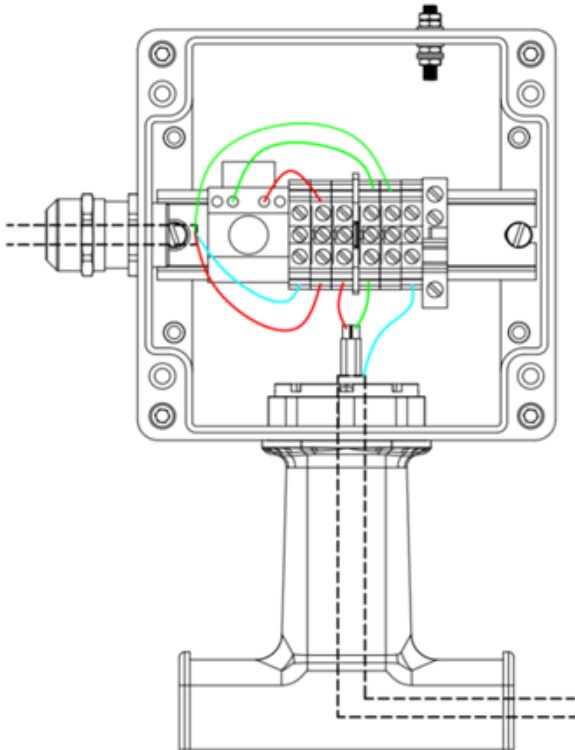


Figure 4.

Connect to Power

16. Connect the power conductors to the heater cable leads using L1 and L2 at the top of the terminal block. Connect the incoming supply ground to the heating cable braid by using PE. Wire nuts may be used in place of terminal block.



CAUTION:

- INSPECT JUNCTION BOX PRIOR TO USE AND DO NOT USE JUNCTION BOX IF ANY COMPONENT IS DAMAGED.
- DO NOT OPERATE JUNCTION BOX ABOVE RATED TEMPERATURE VALUE.
- FASTEN JUNCTION BOX TO DEVICE USING APPROVED METHODS ONLY.
- "RISK OF ELECTRIC SHOCK -DISCONNECT THE ELECTRIC POWER BEFORE SERVICING"
- "ATTENTION: RISQUE DE CHOC ÉLECTRIQUE -DÉBRANCHER AVANT LA MAINTENANCE"

NOTE:

- 1.Terminal torque: 0.7 Nm
- 2.Operating temperatures: -40°F to 149°F (-40°C to 65°C)
- 3.UK5N Certificate No: IECEx KEM06.0034U, Max Power: 1.02W
- 4.USLKG5 Certificate No: IECEx KEM 06.0035U, Max Power: 1.02W
- 5.Explosion proof joint tightening torque: 3 Nm
- 6.Max. Current: 40A
- 7.Rated voltage: 110~120, 220~240V

WARNING:

Failure to observe these warnings may result in personal injury or damage to the product and/or property.

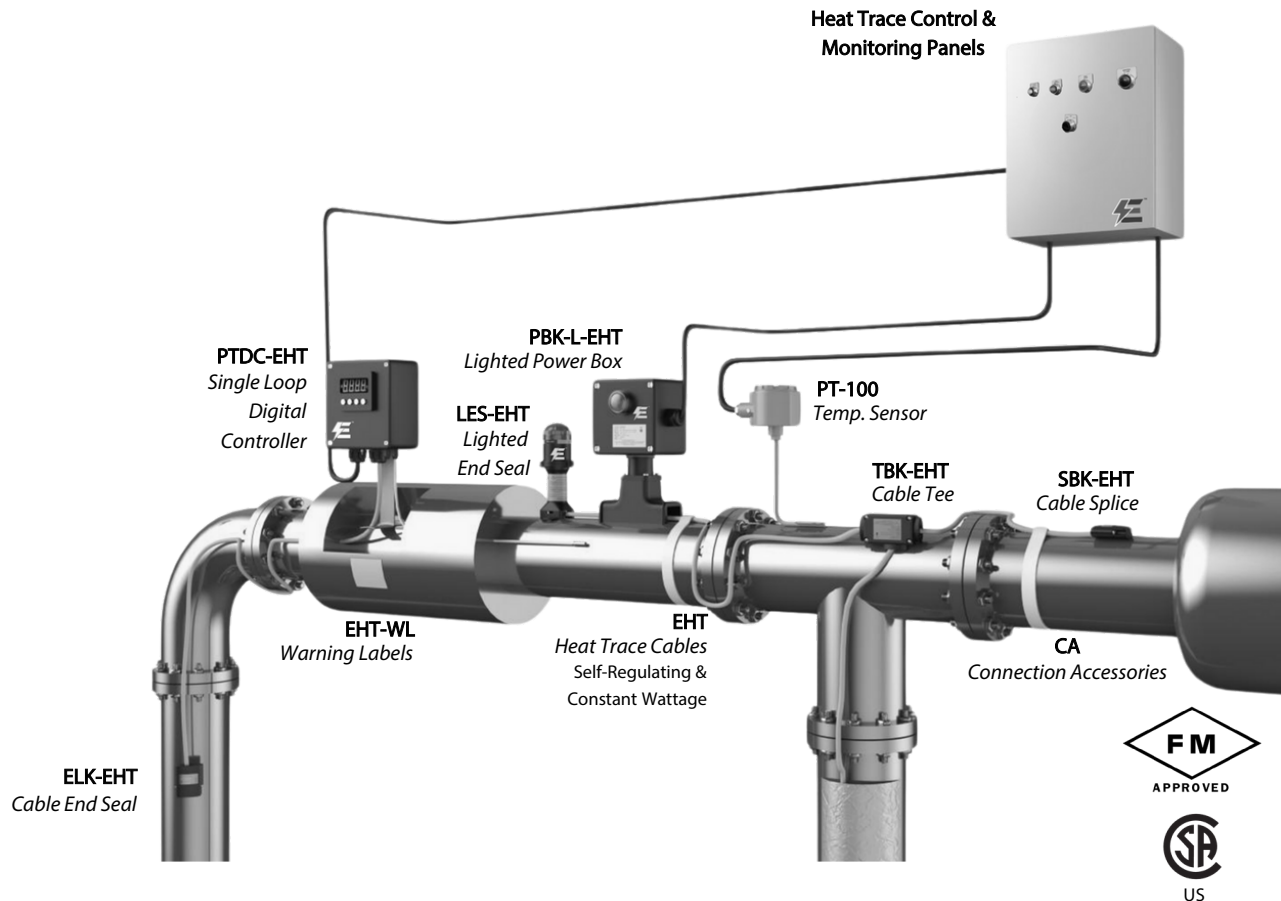
When wiring, the customer must exercise caution to avoid damaging the cable's insulation.

When wiring, it is highly recommended to follow all local electrical codes and NEC Article 427.


The clearance holes for plain entries shall have a diameter not more than 0.7 mm greater than the nominal diameter of the entry thread gland or fitting. Plain hole Ø40 for M40 bracket threaded gland (40.2±0.2mm).

Other Heat Trace Products

For Ordinary and Hazardous Environments



Your Reliable Source for HighQuality and Long-Lasting Heat Trace Systems.



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