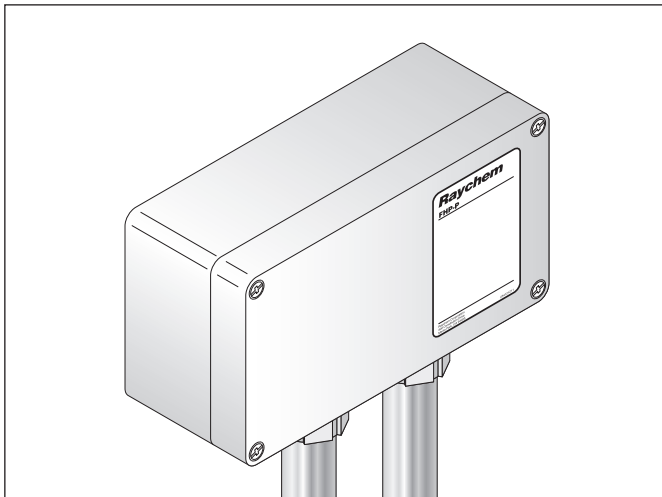



FHP-P

SINGLE POWER CONNECTION WITH JUNCTION BOX FOR FHPC HEATING CABLES INSTALLATION INSTRUCTIONS



APPROVALS

 Ex e II T⁽¹⁾ Type 4X
 -WS
⁽¹⁾T-class by Design.

KIT CONTENTS

| Item | Qty | Description |
|------|-----|---|
| A | 1 | Lid |
| B | 1 | Box with terminal block and earth plate |
| C | 1 | Core sealer |
| D | 1 | Green/yellow tube |

DESCRIPTION

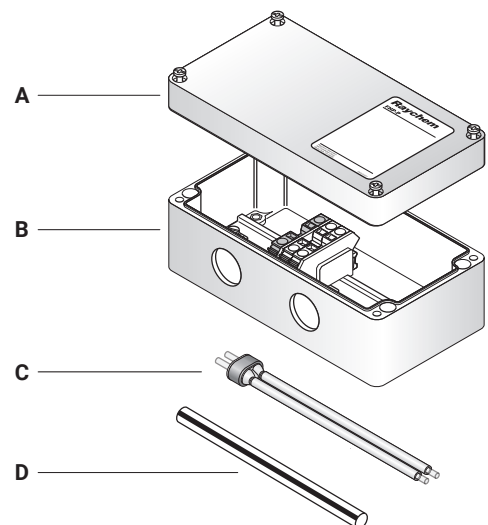
The Raychem FHP-P is a NEMA 4X / IP66 rated power connection kit designed for use with Raychem FHPC constant power density (parallel constant wattage) heating cables for frost heave protection applications.

This kit may be installed at temperatures as low as -40°C (-40°F). For easier installation store above freezing until just before installation.

For technical support, call Chemelex at (800) 545-6258.

TOOLS REQUIRED

- Wire cutters
- Utility knife
- Wire strippers
- Small slotted screwdriver
- Large slotted screwdriver



⚠ WARNING:

This component is an electrical device that must be installed correctly to ensure proper operation and to prevent shock or fire. Read these important warnings and carefully follow all of the installation instructions.

- To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of Chemelex, agency certifications, and national electrical codes, ground-fault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.

⚠ CAUTION:

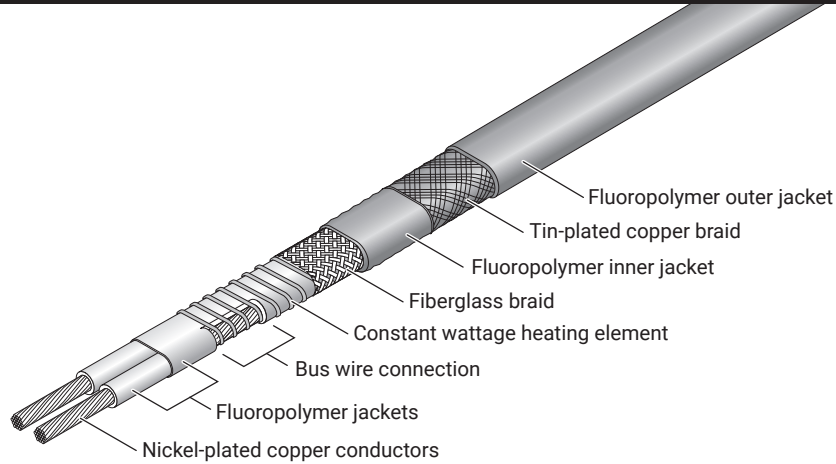
HEALTH HAZARD: Prolonged or repeated contact with the sealant in the core sealer may cause skin irritation. Wash hands thoroughly. Overheating or burning the sealant will produce fumes that may cause polymer fume fever. Avoid contamination of cigarettes or tobacco. Consult MSDS VEN 0058 for further information.

CHEMTREC 24-hour emergency telephone:
(800) 424-9300

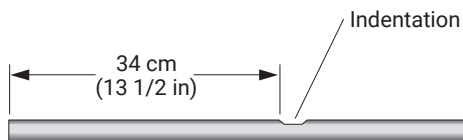
Non-emergency health and safety information:
(800) 545-6258.

- Component approvals and performance are based on the use of Chemelex-specified parts only. Do not use substitute parts or vinyl electrical tape.
- Damaged conductors can overheat or short. Do not break conductors strands when scoring the jacket or core.
- Keep components and heating cable ends dry before and during installation.

FHPC heating cable

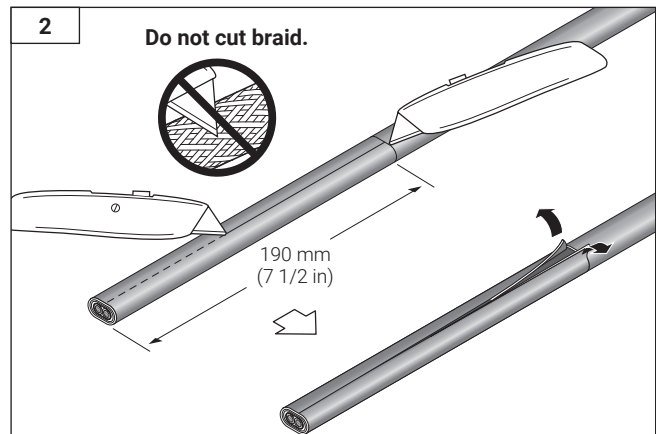


1



2

Do not cut braid.



- Lightly score outer jacket around and down as shown.
- Bend heating cable to break jacket at score, then peel off jacket.

3

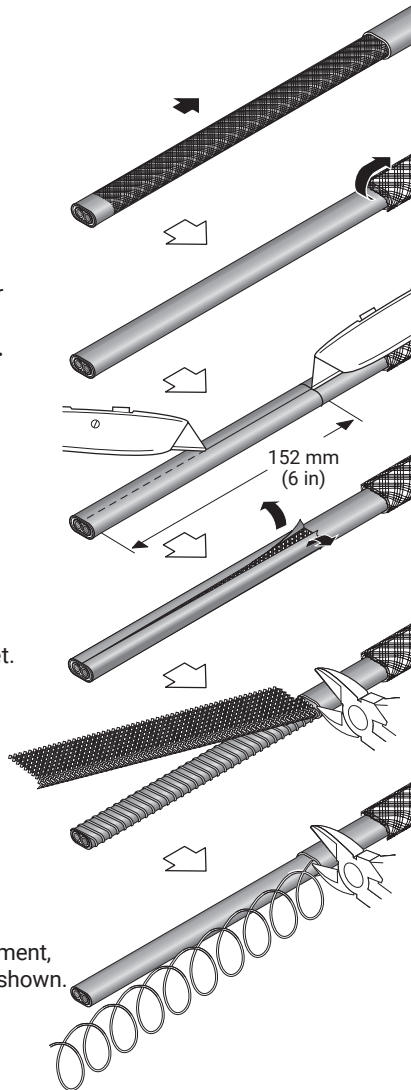
- Push braid back over outer jacket to expose the inner jacket. **Do not cut off the braid wires.**

- Lightly score inner jacket around and down as shown.

- Peel off inner jacket.

- Remove fiberglass braid.

- Unwind heating element, cut and remove as shown.



4

- Lightly score second inner jacket around and down as shown.

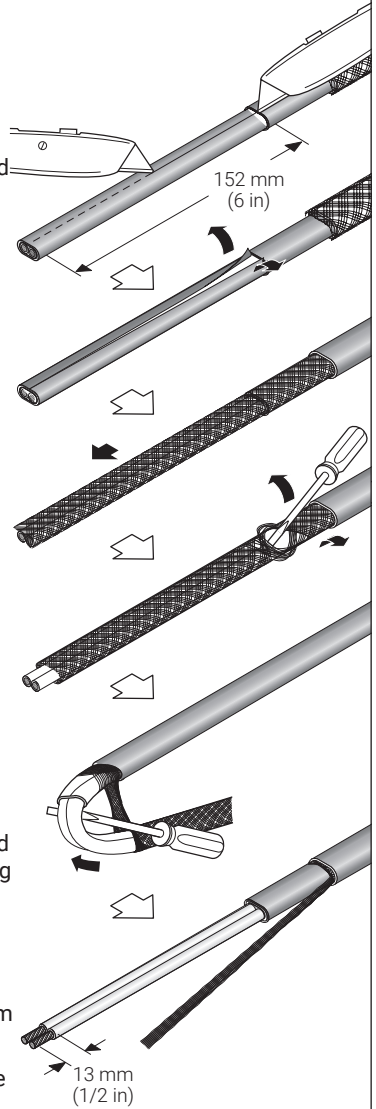
- Bend heating cable to break jacket at the score, then peel off jacket.

- Push braid forward.

- Use a screwdriver to open braid as shown.

- Bend heating cable and work it through opening in braid.

- Remove insulation from ends of conductors.
- Pull braid tight to make pigtail.

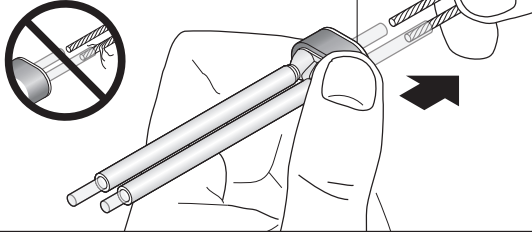


5

⚠ CAUTION: Health Hazard.
 Wash hands after contact with sealant. Consult material safety data sheet VEN 0058.

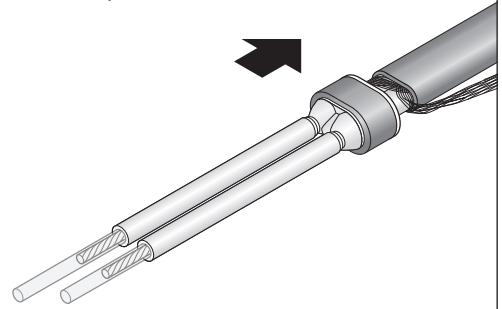
- If needed, re-twist and straighten conductors, then insert into the guide tubes as shown.

Make sure all strands go into the tubes.



6

- Push core sealer onto the heating cable.
- Note:** Extra force may be required for larger cables or at lower temperatures.



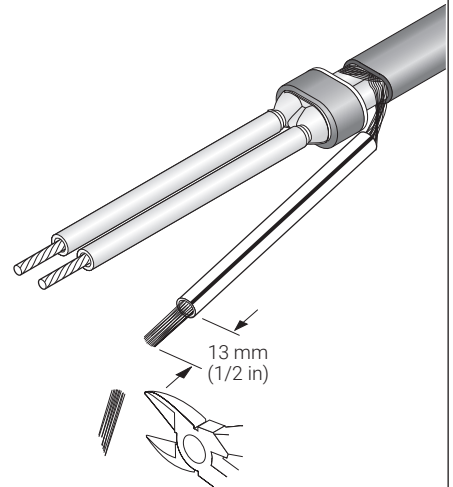
7

- Remove the guide tubes and dispose of them in a plastic bag.
- Slip the green/yellow tube onto the braid. Heat-shrinking is not required.



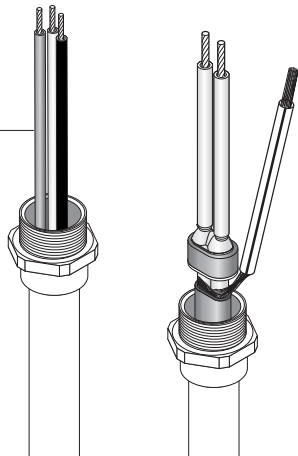
8

- Trim braid.



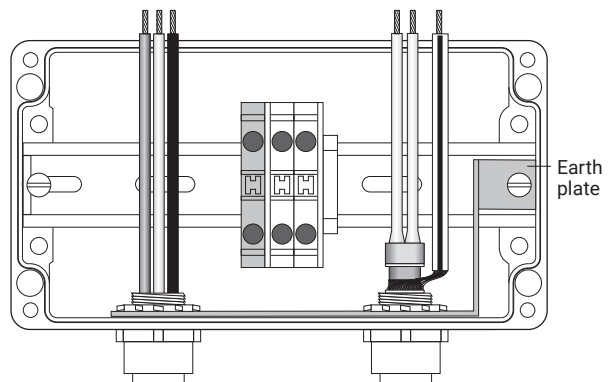
9

Power and ground leads



10

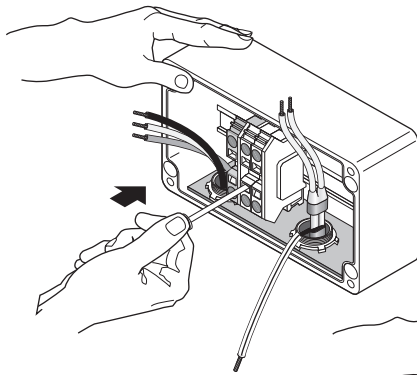
- Install box and conduit hub lock nuts.



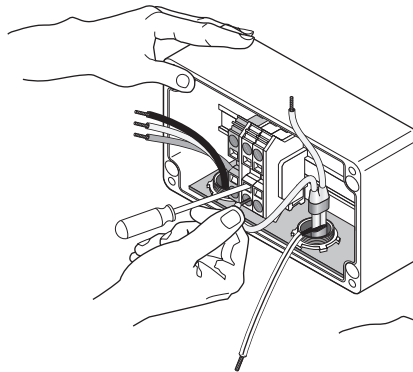
This kit uses spring clamp style terminals.

Terminals use a steel spring to clamp the wire to provide improved vibration resistance, reduced maintenance and faster installation.

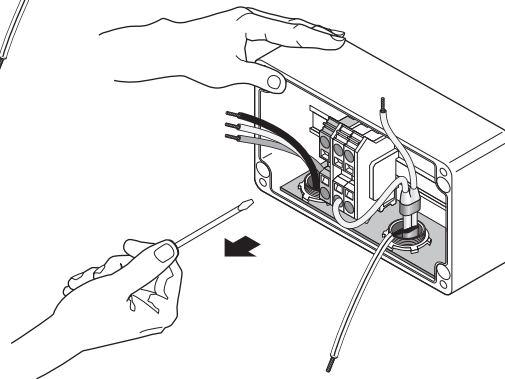
To connect wires, firmly insert a slotted screwdriver into the square hole (①) to open the spring. When fully inserted, the screwdriver will lock into place, allowing you to remove your hand and insert the wire into the round hole (②). Remove the screwdriver to clamp the wire. The wire is held securely against the bus bar for low contact resistance over time without the need to periodically retighten screws.



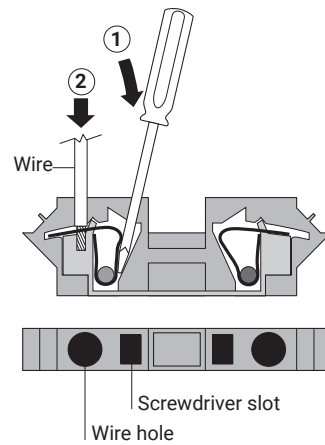
- Push screwdriver **FIRMLY** into square hole.



- Insert wire into round hole.
- Use green terminal for braid and ground wire.



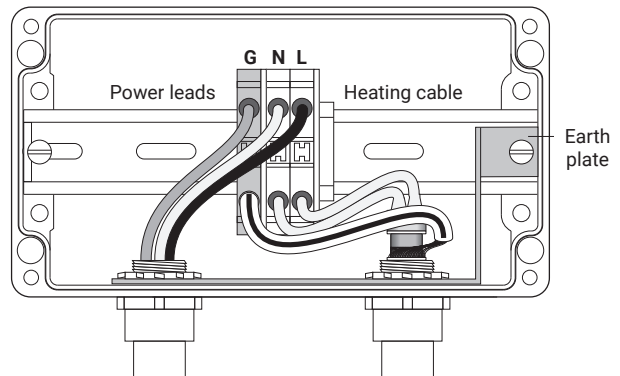
- Remove screwdriver.



12

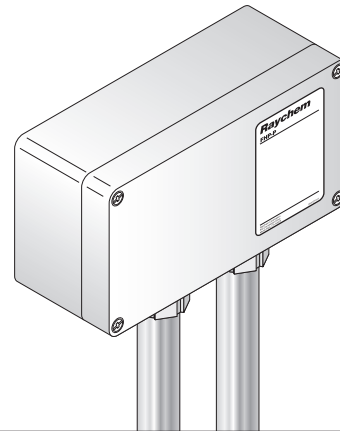
- Install conduit and fittings as shown. To minimize loosening due to pipe vibration, use flexible conduit.
- Pull in power and ground wires, strip off 13 mm (1/2 in) of insulation and terminate.

Note: Conduits are grounded through the earth plate and DIN rail to the ground terminal.



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- Install lid.
- Leave these instructions with the end user for future reference.



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