TS-PRO

Low-Profile Tee & Splice Connection Kit



Approvals

C SP® US

Class I, Div. 2, Groups A, B, C, D
Class II, Div. 2, Groups F, G
Class III

Description

YeloDeer
Plug In · Heat Up

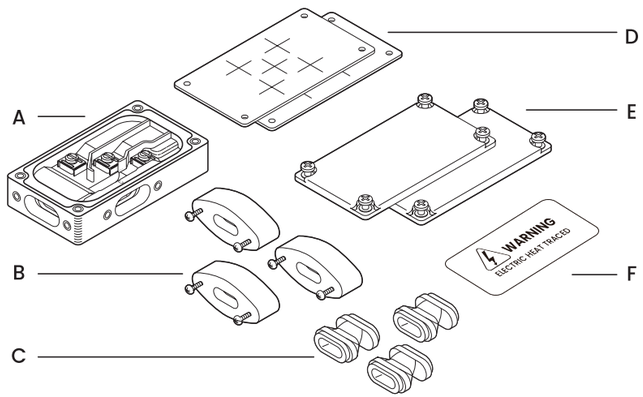
TS-Pro is a low-profile connection kit designed for use with self-regulating heating cables in heat-tracing systems. It enables reliable inline splices for extending heating cable runs, as well as tee connections for branching circuits to multiple pipes, roof sections, or equipment.

The kit allows installers to create secure cable connections directly at the installation site, providing greater flexibility when routing heating cables in heat-tracing applications.

TS-Pro provides durable mechanical protection, electrical insulation, and NEMA 4X waterproof sealing to help protect cable connections from moisture and environmental exposure. The low-profile housing design also allows the connection to be easily covered with insulation and cladding without creating excessive bulk.

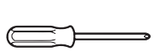
This ensures reliable operation of heating systems in applications such as pipe freeze protection, roof and gutter de-icing, and other heat-tracing installations.

Kit Contents



- **A** **Body** × 1
- **B** **Pressure plates with screws** × 3
- **C** **Grommets** × 3
- **D** **Gaskets** × 2
- **E** **Covers with captive screws** × 2
- **F** **Label** × 1

Tools and Materials Required



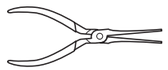
Screwdriver



Utility Knife



Wire Cutters



Needle-Nose Pliers



Fiberglass Cloth Tape

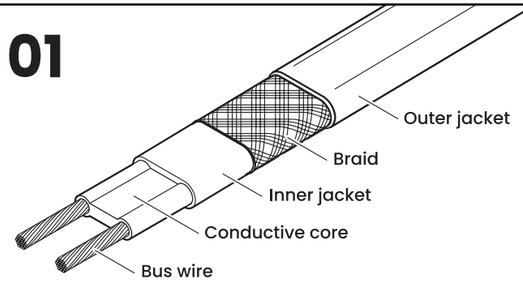
Important Safety Warnings

This electrical accessory must be installed by qualified personnel in accordance with this manual. Improper installation may cause electric shock, fire, or property damage. Read and follow all warnings:

1. To minimize arc fire risks from damaged/improperly installed cables, the system must be equipped with a ground fault protection device. Conventional circuit breakers may not stop arcing.
2. Use only factory-specified parts. Do not substitute with other components or vinyl electrical tape.
3. The black core of the heating cable is conductive and prone to short circuit—keep its insulation intact and dry during the entire installation process.
4. Do not break the bus wire strands during the wire stripping operation. Keep bus wires separated to avoid short circuits
5. Keep all components, cable ends, and connections dry before and during installation. Do not construct in wet conditions.
6. Use only fire-resistant insulation materials (e.g., fiberglass wrap, flame-retardant foam) for subsequent protection.
7. Do not immerse the kit in liquid. Keep away from volatile, flammable, or corrosive substances.
8. Inspect all parts before installation. Do not use damaged/deformed components; do not repair defective parts yourself.
9. **ELECTRIC SHOCK HAZARD. Cut off all power supplies** of the heating system before construction. Live operation is strictly prohibited.
10. Retain this manual for future reference.

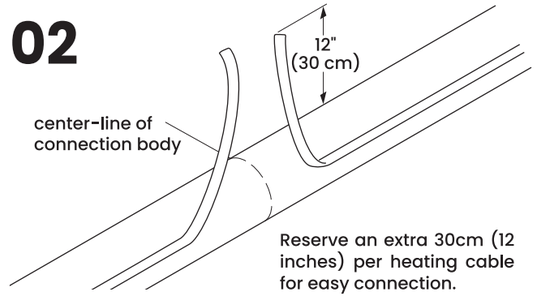
Installation Instructions

01



Confirm heating cable type is self-regulating.

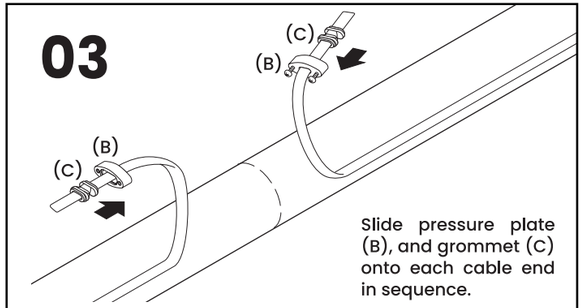
02



Reserve an extra 30cm (12 inches) per heating cable for easy connection.

Reserve cable length.

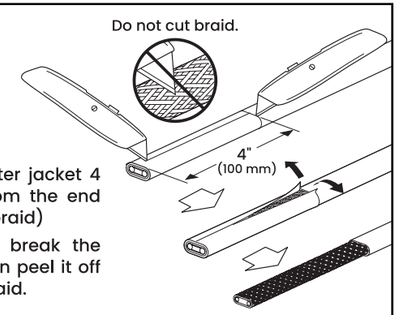
03



Slide pressure plate (B), and grommet (C) onto each cable end in sequence.

Slide parts onto cables.

04

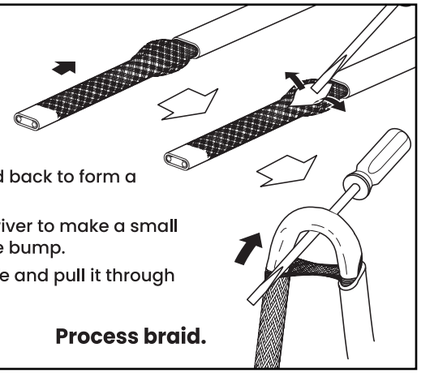


Lightly score outer jacket 4 in (100 mm) from the end (do not cut the braid)

Gently bend to break the outer jacket, then peel it off to expose the braid.

Strip outer jacket.

05



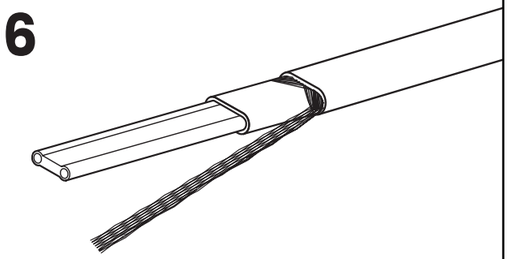
Push the braid back to form a "bump."

Use a screwdriver to make a small opening in the bump.

Bend the cable and pull it through the opening.

Process braid.

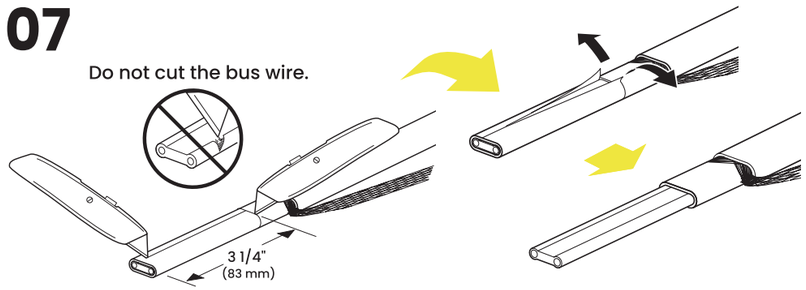
06



Twist the braid tightly to form a "pigtail" for grounding.

07

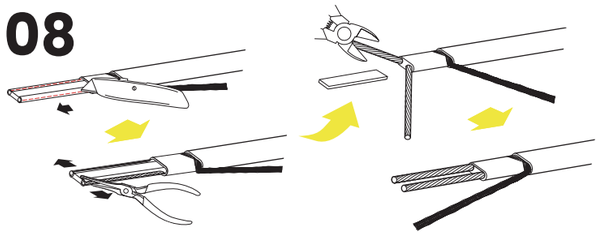
Do not cut the bus wire.



Lightly score the inner jacket 3 1/4 in (83 mm), bend to break the inner jacket, then peel it off.

Strip inner jacket.

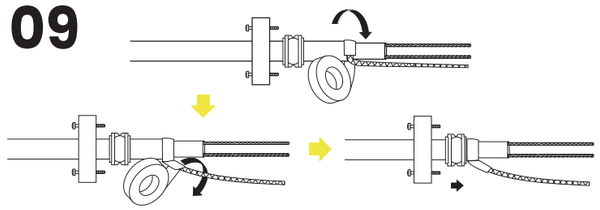
08



Remove the PTC layer to expose the bus wire:

- Gently peel the outer skin along both sides of the PTC layer with a utility knife until the bus wire is exposed.
- Clamp and pull out the bus wire with needle-nose pliers to separate it from the PTC layer.
- Cut off the excess PTC layer with wire cutters.

09



(Hazardous Location – Class I, Div. 2 Applications Only)

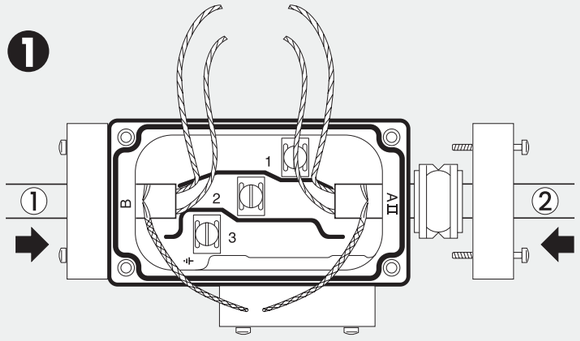
This step is required only for installations in CSA Class I, Division 2 hazardous locations.For standard (non-hazardous) installations, this step can be skipped.

- Wrap the pigtail braid and the inner jacket with fiberglass tape (min. 3 loops).
- Separate the pigtail from the cable and wrap it with tape (min. 2 loops).
- Slide the grommet to the tape edge. Do not install over the tape.

Option A: Inline Splice Installation (Connecting 2 Heating Cables)

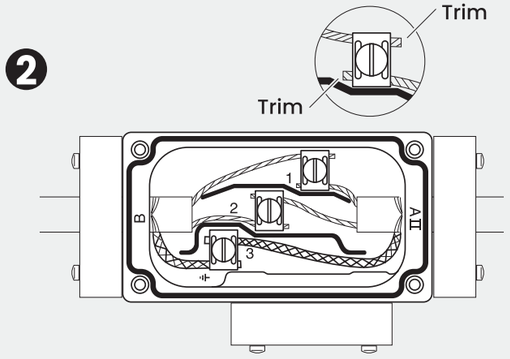
Warning: For inline splice (2 cables), DO NOT remove the factory-installed rubber plug in Port 3. This plug ensures the NEMA 4X water-tight integrity.

❶



1. Insert the two processed cable ends into ports ① and ② of the main body(A); seat the grommets(C) securely. Tighten pressure plate screws to seal the 2 ports.

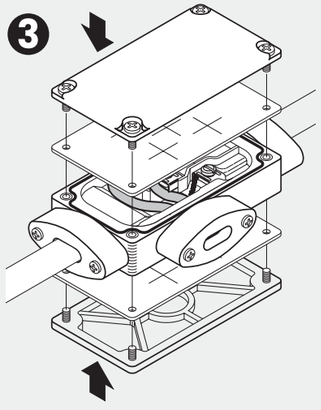
❷



2. Connect bus wires and braid

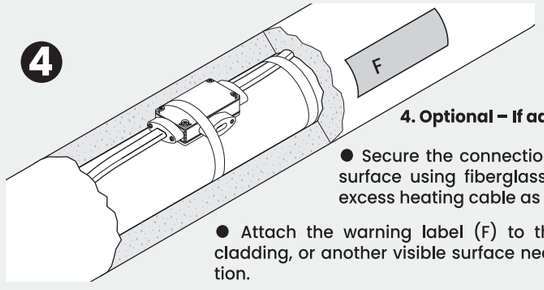
- Loosen screws, lockwashers, and clamps on terminals 1, 2, and 3
- Connect the two cables' corresponding bus wires to terminals 1 and 2 respectively; connect both braids to terminal 3.
- Refit and tighten clamps, lockwashers, and screws; trim excess wire and loose braid.

❸



3. Install gaskets (D) and covers (E); tighten the cover screws

❹

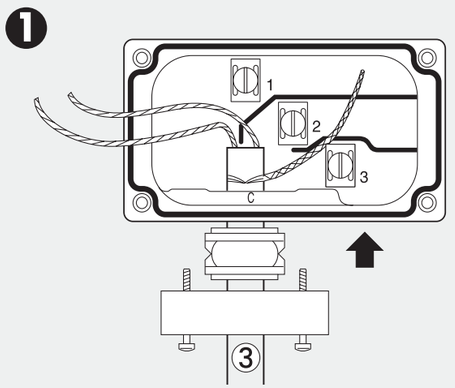


4. Optional – If additional securing is required:

- Secure the connection kit to the pipe or mounting surface using fiberglass tape. Loop and secure any excess heating cable as needed.
- Attach the warning label (F) to the outside of the insulation, cladding, or another visible surface near the heating cable installation.

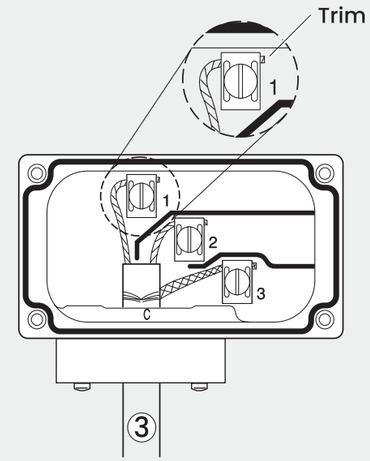
Option B: Tee Branch (Connecting 3 Heating Cables)

❶



1. Repeat Step 1-9 for the third cable. Turn over TEE body(A), insert the third cable into port ③ of the main body (A); seat the grommet(C) securely. Tighten pressure plate screws to seal the port ③.

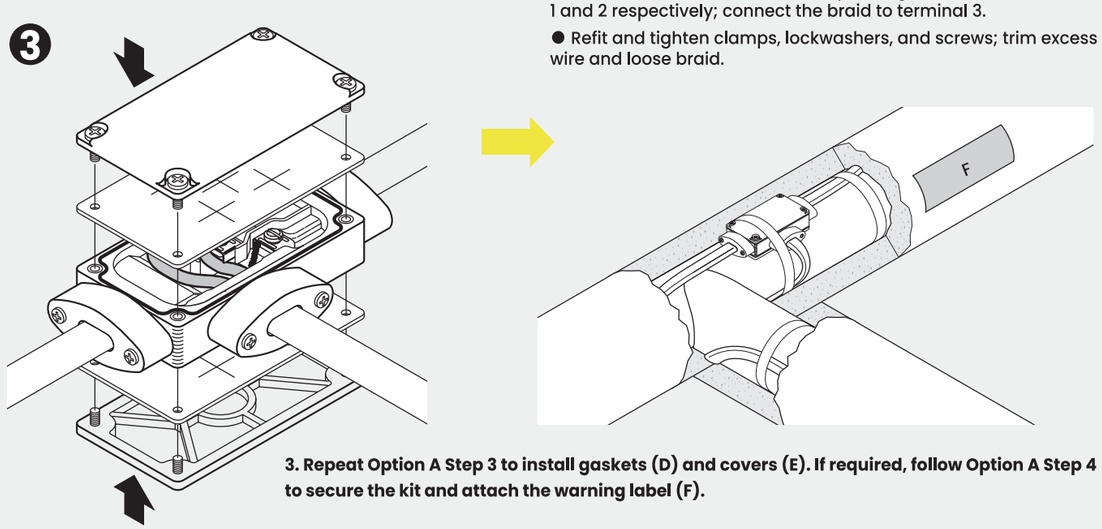
❷



2. Connect bus wires and braid

- Loosen screws, lockwashers, and clamps on terminals 1 and 2.
- Connect the third cable's corresponding bus wires to terminals 1 and 2 respectively; connect the braid to terminal 3.
- Refit and tighten clamps, lockwashers, and screws; trim excess wire and loose braid.

❸



3. Repeat Option A Step 3 to install gaskets (D) and covers (E). If required, follow Option A Step 4 to secure the kit and attach the warning label (F).

Warranty Information

This product is covered by a 12-month limited warranty to the original purchaser from the date of purchase. During the warranty period, if the product is found to have manufacturing defects under normal installation and use as specified in this manual, YeloDeer will, at its discretion, repair or replace the defective product. This warranty is limited to the repair or replacement of the product only. YeloDeer shall not be liable for any indirect, incidental, or consequential damages arising from the use of this product.

The warranty does not cover:

- Damage caused by improper installation or use of non-specified components.
- Damage caused by physical impact, corrosion, extrusion, or other non-manufacturing factors.
- Products that have been modified, disassembled, or repaired by unauthorized personnel.

Scan for support

At Your Service

Web:
www.yelodeer.com
Email:
yelodeer@yelodeer.com

To Be the #1 HEATING CABLE BRAND for Homes