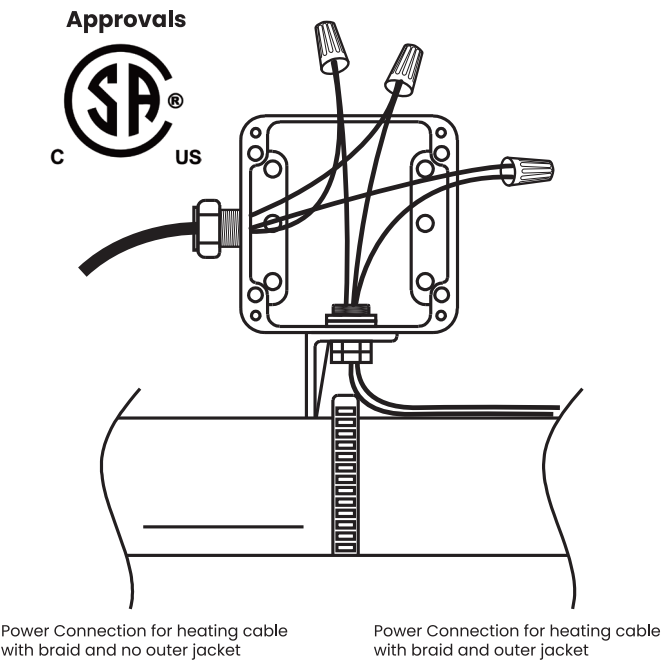


INSTRUCTION MANUAL

Power Connection Kit KYSF01



Power Connection for heating cable with braid and no outer jacket

Power Connection for heating cable with braid and outer jacket

Description

This power connection kit is used to connect self-regulating heating cables to power supply cables and for hardwired installation into a junction box. It is suitable for use only with self-regulating heating cables. The kit includes all materials required for one power connection.

Self-regulating heating cable systems are designed for water-pipe freeze protection as well as roof and gutter de-icing applications.

Additional Materials Required

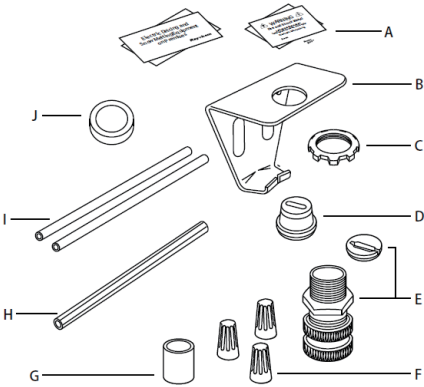
- A CSA-listed junction box suitable for the installation location is required. The junction box must include a clearance hole for a 1/2-inch conduit or a 1/2-inch NPT threaded hub, and the minimum internal dimensions must be 120 mm × 120 mm × 90 mm.
- For heating cable with no outer-jacket, you must use a metallic junction box to ensure proper grounding.
- Your application may require additional accessories; for example, application tape for pipe applications; RC roof clips and/or DH downspout hangers for roof and gutter de-icing applications.

Tools Require

Needle nose pliers, Diagonal cutters, Adjustable wrench, Pen, Utility knife, Screwdriver, Propane torch or heat gun.

Kit Contents

Item	Qty	Description
A	4	Labels
B	1	Pipe mounting bracket
C	1	Lock nut
D	1	Black gromment
E	1	Sealing fitting with black gromment
F	3	Wire nuts
G	1	Black heat-shrinkable tube — 1 in (Long) x 1/2 in (Dia.)
H	1	Green/yellow heat-shrinkable tube — 6 in (Long) x 1/4 in (Dia.)
I	2	Black heat-shrinkable tubes — 5 1/2 in (Long) x 1/8 in (Dia.)
J	1	Sealing gasket



WARNING

These components are electrical devices. They must be installed correctly to ensure proper operation and to prevent shock or fire. Carefully follow all of the installation instructions and read these important warnings.

- 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 national electrical codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection.
- Component approvals and performance are based on the use of specified parts only. Do not substitute parts or use vinyl electrical tape.
- The black heating-cable core is conductive and can short. It must be properly insulated and kept dry.
- The conductive layer of this heating device must be connected to a suitable grounding/earthing terminal.
- Installer should apply the Nameplate label to the surface of the junction box.
- Keep ends of heating devices and kit components dry before installation.
- Keep components and heating cable ends dry before and during installation.

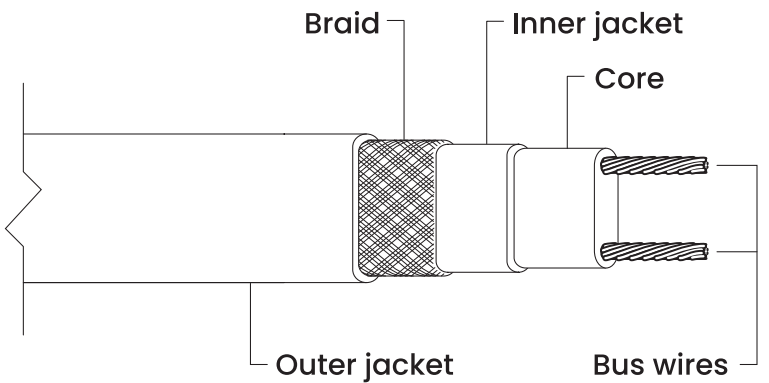
- Damaged bus wires can overheat or short. Do not break braid or bus wire strands when scoring the jacket or core.
- Bus wire will short if they contact each other. Keep bus wires separated.
- Heat-damaged components can short. Use a heat gun or a torch with a soft, yellow, low-heat flame, not a blue focused flame. Keep the flame moving to avoid overheating, blistering, or charring the heat-shrinkable tubes. Avoid heating other components. Replace any damaged parts.
- Use only fire-resistant insulation materials such as fiberglass wrap.
- Leave these installation instructions with the user for future reference.
- The cable should not be twisted during installation.
- De-energize all power circuits before installation or servicing.
- The heating cable should not be embedded.

CAUTION

Charring or burning the heat-shrinkable tubes in this kit will produce fumes that may cause eye, shin, nose, and throat irritation.

KYSF01 Power Connection Kit

POWER CONNECTION KIT INSTALLATION INSTRUCTIONS



01 Open sealing fitting and slide the junction box fitting cap, strain relief disk, grommet, and then fitting body onto the power end of cable.

02 For heating cable with outer jacket, lightly score the outer jacket all the way around, then make a lengthwise cut down the jacket for 178mm (7").

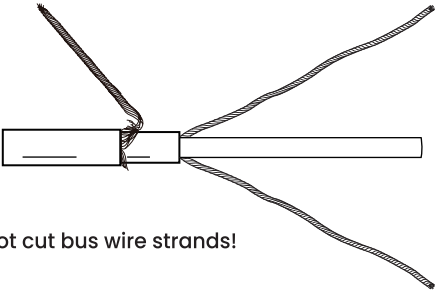
• Do not cut braid or inner jacket!

03 Push braid back to loosen slightly, gently spread apart braid as shown.

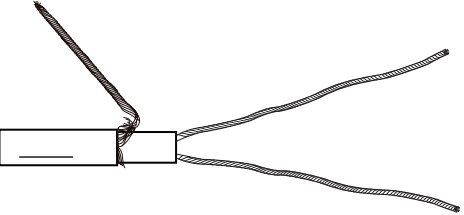
04 Bend heating cable and feed it through the opening in the braid.

05 Position braid on one side of heating cable. Cut insulating jacket of cable back 152mm (6").

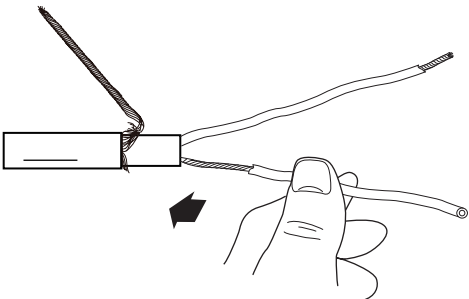
06 Skive outer matrix material from conductors with utility knife.



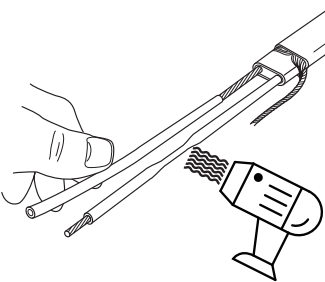
07 Peel exposed wires back from center matrix.



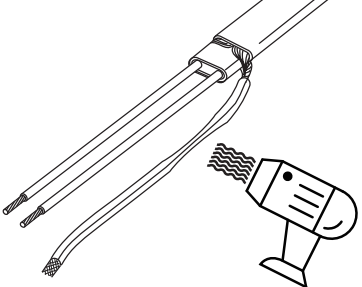
08 Cut and remove remaining center core of matrix. Leaving bare conductors.



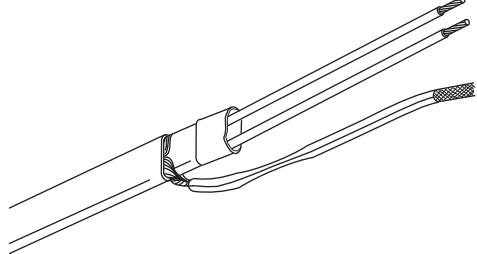
09 Slide 140mm(5-1/2") black shrink tubes into place against conductive core.



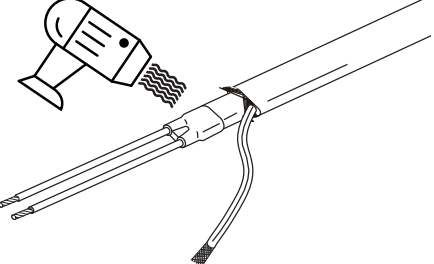
10 Shrink tubing by moving heat source continuously from back and forth.



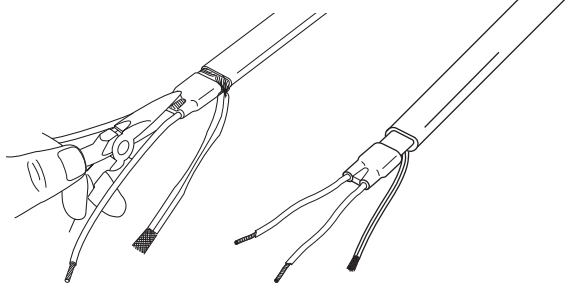
11 Slip green/yellow tube over braid and shrink.



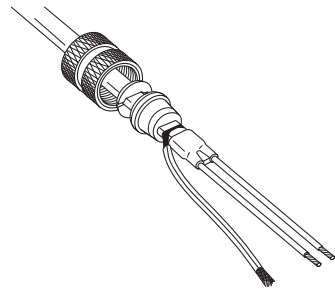
12 Center 25mm(1") black shrink tube over end of heating cable as shown.



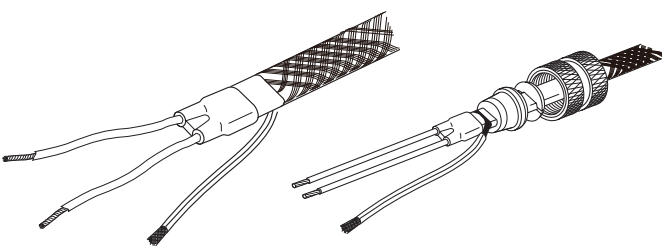
13 Heat evenly until the tubing fully shrinks and adhesive flows from both ends.



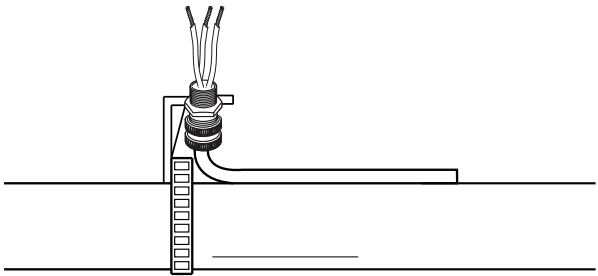
14 Immediately pinch the end between the wires with pliers while the tube is still hot. Hold for 10 seconds to ensure a tight seal.



15 For heating cables with outer jacket: Slide parts into position as shown.

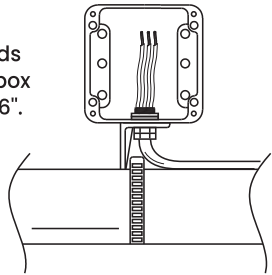


16 For heating cable with no outer jacket: Slide parts into position as shown.

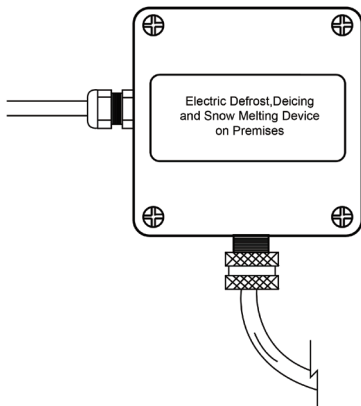


17 Fasten the metal pipe mounting bracket loosely to the pipe with the metal band. Position the bracket such that the cable and fitting come straight up through the hole, and then tighten the band.

Note : The free length of the leads inside an outlet box shall be at least 6".



18 Metallic junction box must be used to ensure proper ground. Insert heating cable and tighten.



19

Make connections as shown, connect the power conductors to the cable leads. Connect the incoming supply ground to the cable braid and to the green ground wire. The wire nuts included are not intended for use with aluminum feed wires. The junction box needs to be grounded.

For roof and gutter applications, apply "Electric De-icing" label to junction box.



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