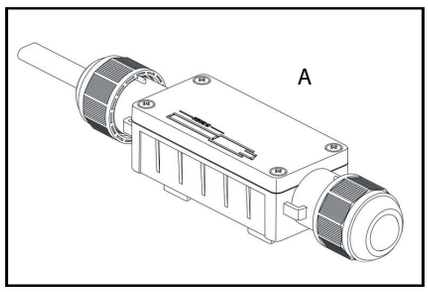
POWER TRACE
Commercial & Industrial
Heat Trace Products

QC-LE
Instruction Guide

QuickConnect-LE Installation

Description

The QuickConnect connection system is a simple, fast and reliable set of connection kits developed for heating cables. There is no wire stripping needed because the insulation displacement connector makes the electrical connection. The connection kit shall be designed to be installed above the pipe insulation and shall not be immersed in the water.



⚠ 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 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 approval testing lab and national electrical codes, ground- fault equipment protection must be used. Arcing may not be stopped by conventional circuit breakers.
- The bus wires will be short if they contact each other. Keep bus wires separated.
- Keep components and heating cable ends dry before and during installation.
- The black heating cable core is conductive and can short. It must be properly insulated and kept dry.
- Leave these instructions with the end user for reference and future use.

Tools

Utility knife	Wire cutters	Screw driver

Materials required for installation

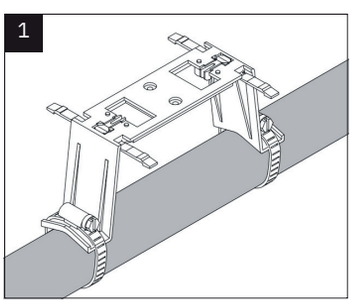
Content	Quantity	Description
A	1	QuickConnect-LE
B	1	Pipe mounting bracket
C	2	Steel bands

Specification

- Voltage 110-120V or 208-277V
- Maximum circuit breaker size: 20A
- Minimum installation temperature: -20 °C; (-4°F)
- Maximum exposure temperature: 65°C (150°F)
- IP rating: IP68

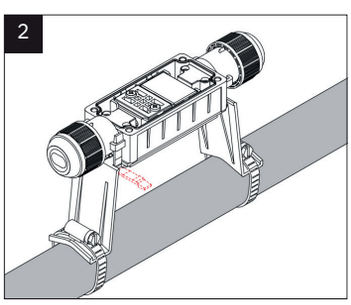
Installation step

1



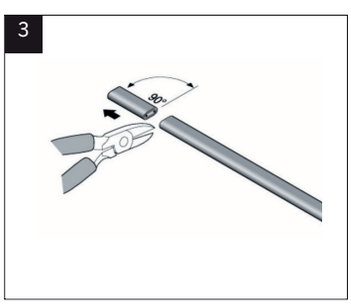
1. Fix the bracket on the pipeline with stainless steel bands.

2



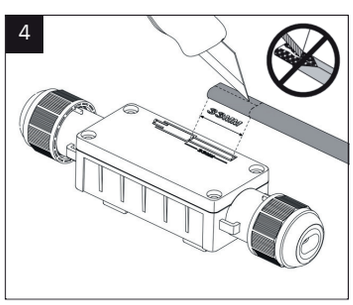
2. Align and insert the four clips of the mounting bracket with the four holes of the quick connector.
Note: Installation direction of quick connector.

3



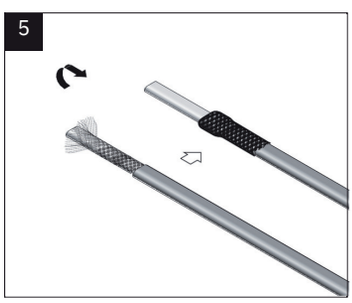
3. Cut heat trace cable to length required. Note: Cut the cable as shown for a clean edge without wire strands.

4



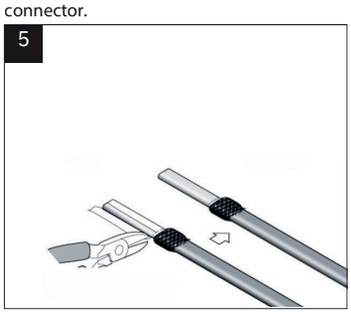
4. Cut the outerjacket from the middle at 33mm away from the cutting section using a utility knife, and remove the outerjacket.

5



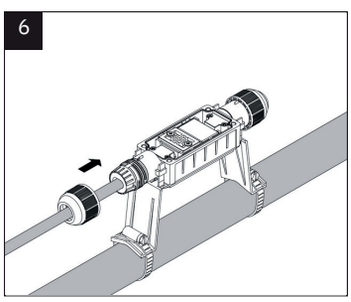
5.1 Heating cable, pull exposed braid back and tidy it.

5



5.2 If heating cable has aluminum foil layer it must be removed. Pull exposed braid back and tidy it.

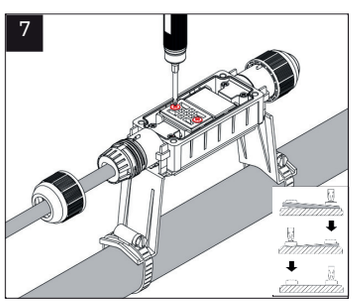
6



6. Insert the prepared heating cable end into the connector through the elastic cap and push until the heating cable is fully inserted.

Note: the flat direction of the cable must be consistent with the direction of the seal. The QuickConnect connector is designed to be installed only once. The heating cable cannot be removed once installed.

7



7.Tighten the two screws on the cover plate of the connector alternately to ensure the screw is locked.

Note: Loose screws may cause heating and sparking, causing a fire hazard. Please ensure that the screws are locked.

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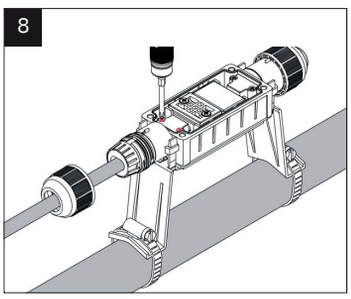
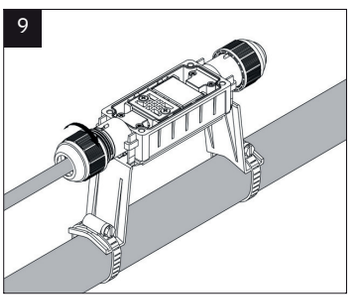
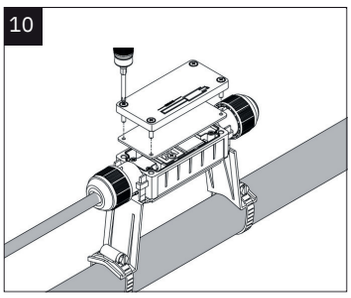


8.Tighten the two screws on the fixed cable block alternately to ensure the screws are locked.



9.Tighten the elastic cap



10. After the cable installation is completed, cover the connector cover plate and tighten the four screws alternately to ensure that the sealing ring is compressed.

Troubleshooting guide

Problem description	Solution
Heating cable cannot be inserted into connector	Check the following: 1.The length from the end to the cutting point is 33mm 2.The exposed braid shall be flat and attached to the outer jacket. 3.Connecting screws is loosed
Heating cable cannot be removed	The QuickConnect connection kits are designed to be installed only once, the heating cable cannot be removed once installed.
The prepared heating cable does not work after connected with QuickConnect connector.	1.Check the power 2.Check the screws to ensure screws are fully tightened. 3.Please replace it once failed