

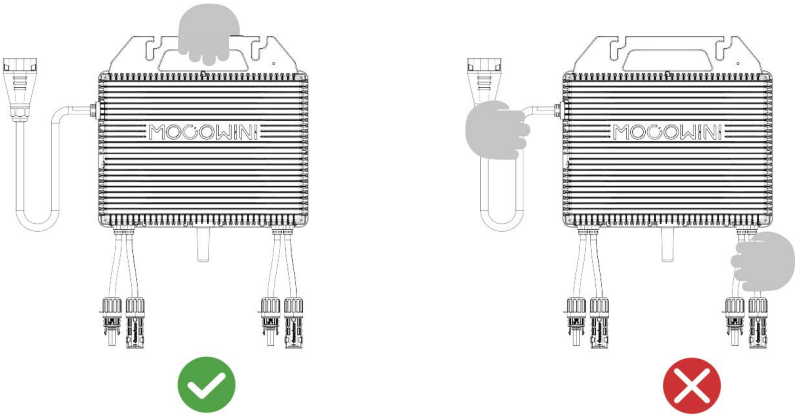
Installation Manual

I.Installation Environment Requirements

- a) Avoid areas with flammable, explosive, or corrosive materials.
- b) Mount on a sturdy PV bracket capable of supporting the inverter's weight.
- c) Choose a cool, well-ventilated location, away from direct sunlight, rain, snow, and UV rays.
- d) Install away from electromagnetic interference sources.
- e) Keep out of reach of children and avoid touching when hot.
- f) Ensure compatibility between the inverter's connectors and PV module connectors.

II. Micro-Inverter Installation

Before installation, please transport the micro-inverter to the site. Follow the instructions below to prevent personal injury or equipment



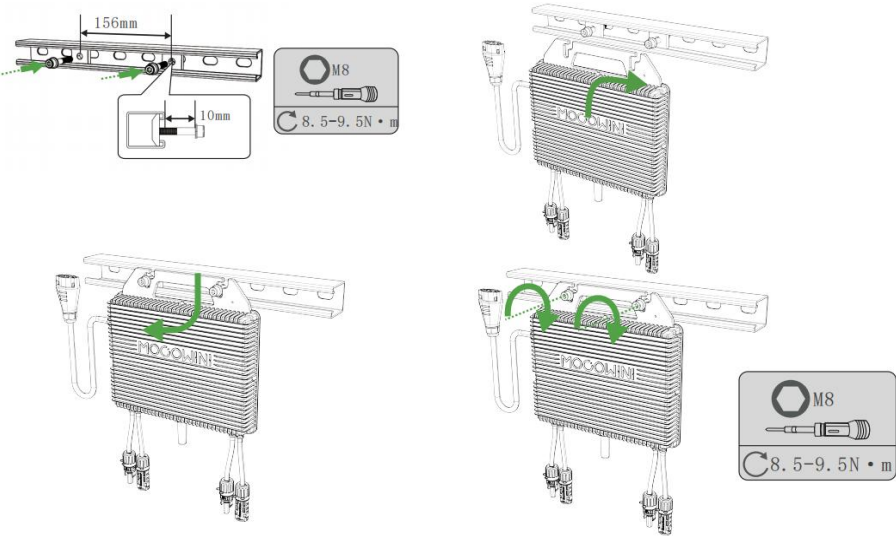
damage.

Warning:

- a) Wear safety gloves when handling the micro-inverter to prevent injury. Maintain balance to avoid dropping.
- b) Do not lift cables by hand. Use the handle of the micro-inverter for installation. Avoid touching or hitting the antenna to prevent damage.
- c) Ensure at least 10 cm clearance around the micro-inverter for proper

ventilation and heat dissipation.

- d) Mount the micro-inverter on the rail. Prepare aluminum clamps and screws for installation; the rail's holes may not be suitable for the inverter.
- e) Use appropriate M8 screws, considering the rail's size and the inverter's handle thickness (6.5 mm), to secure it in the correct position.



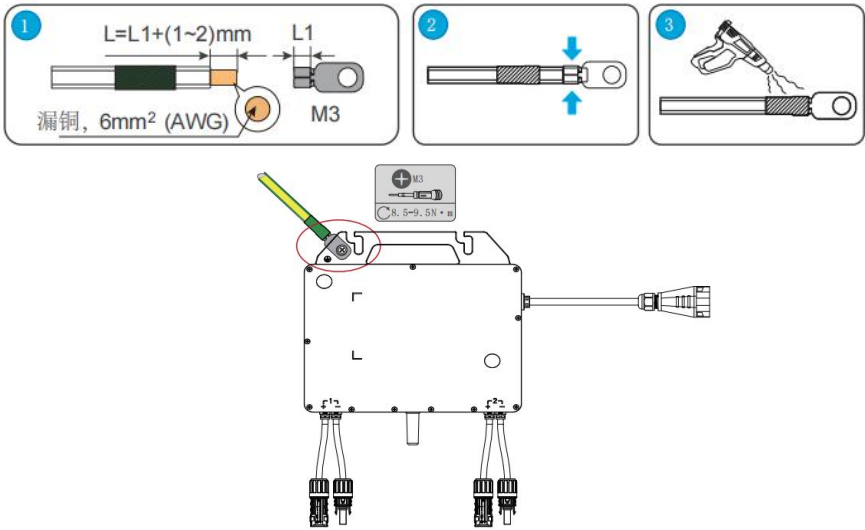
III. Electrical Connections

1. Safety Notes:

- a) Disconnect the PV Panels and micro-inverter's AC output before connecting. Power off the inverter.
- b) Follow local electrical laws, including operations, wiring, and component specs.
- c) Prevent excessive cable pull to avoid poor connections. Leave slack before the inverter.
- d) Inverters must only connect to the grid.
- e) Use dust caps or sealed plugs when connectors are not in use.
- f) Install an AC disconnect switch for safe power-off during emergencies. Select based on local regulations.
- g) Ensure MPPT's max short-circuit current and input voltage are within limits. Connect PV panel's negative to inverter's PV+ and positive to PV-.

- h) Ensure the minimum ground isolation resistance meets the required specifications before connecting the micro-inverter.

2. PE cable connection

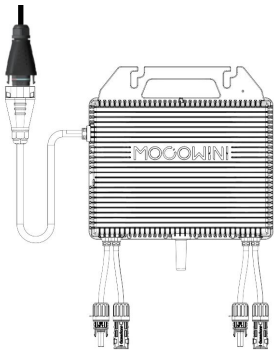


Warning:

- a) Ensure equal grounding potential when connecting multiple micro-inverters.
- b) It is recommended that you apply silicone or paint to the ground terminal after installing the PE cable. The PE cable and grounding OT terminal are prepared by the customer. Recommended specifications :6mm2(AWG), M3 ground OT terminal.

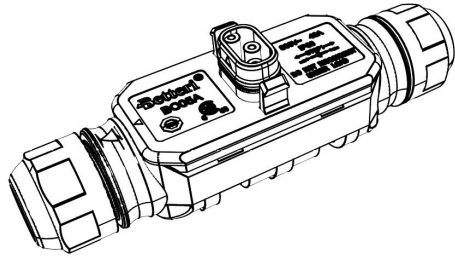
2. AC Cable Connection

Schematic diagram of single micro-inverter connection:

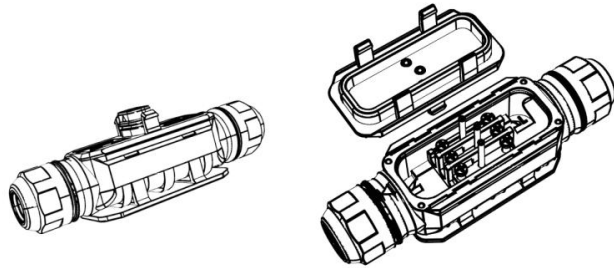


Schematic diagram of multiple microinverters connection

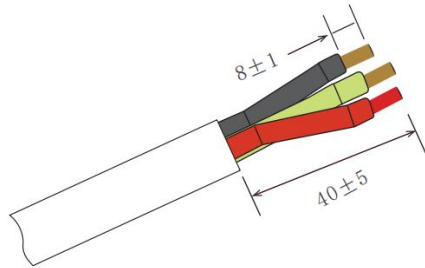
1. Take one main body of the connector's main cable.



2. Use the main cable unlocking tool to open the cover.

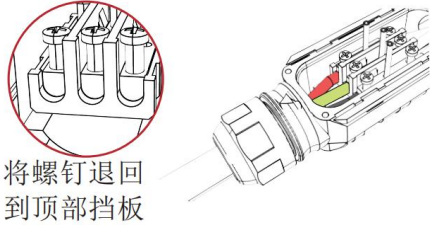


3. Cut the cable to the required length according to the system requirements. Strip the outer sheath of both ends of the cable by 40 ± 5 mm and the inner core by 8 ± 1 mm

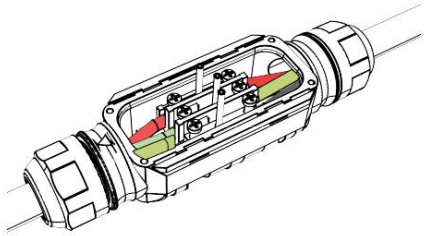


4. Before wiring, use a No. 2 Phillips screwdriver to turn the screw to the uppermost stop position. Then, pass the cable through the main body's housing

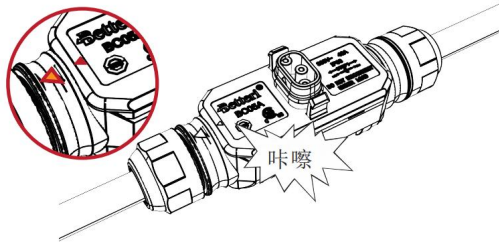
and insert the inner core wires into the terminal according to the L, PE, and N markings on the box. Tighten the screw with a torque of 0.4 ± 0.1 N·m



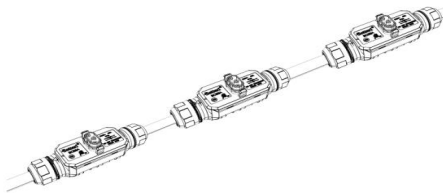
5. Repeat step 4 to connect the other end of the cable. Tighten the nuts at both ends with a torque of 4.0 ± 0.5 N·m.



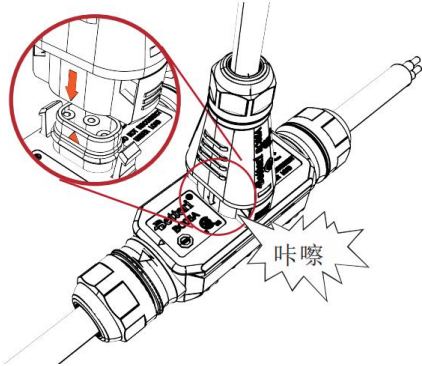
6. Close the cover according to the guide arrows on the box body and cover. When the cover is properly engaged, you will hear a crisp click.



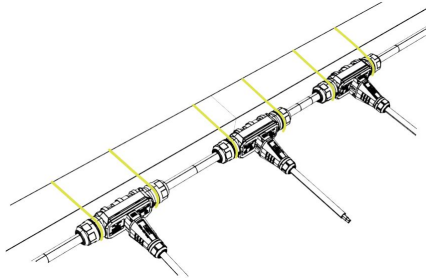
7. According to the system requirements, select the appropriate number of connectors and connect them in series for later use.



8. Install the branch line onto the main line. During installation, align the guide arrows on the main line and the branch line, then insert them together. A crisp click will be heard when they are properly engaged.



9. Secure the connectors to the appropriate position on the bracket using cable ties or wire straps, ensuring they are firmly and reliably fixed.



10. Connect the microinverter to the T-connector.

