Terra AC Wallbox

THE HOME OF CHARGING

Terra AC Wallbox

ABB is trusted by the world's biggest brands to provide smarter mobility solutions from highway to home. The Terra AC wallbox combines ABB's leadership in e-mobility and 130-year heritage of innovation in a superior wall charging solution.

High-value quality

- Best-value charger on the market
- Broad range of connectivity options
- Space-saving and easy-to-install design

Futureproof flexibility

- Smart functionality for optimized charging
- Energy meter integration for dynamic load management
- Dedicated App for control and configuration
- Remote software update enabled

Safety & protection

- Evaluated and tested by independent third party to meet the highest standards
- Current limiting protection prevents against nuisance tripping and overcurrent to the installation
- Integrated protections including DC ground fault and overvoltage

"The Terra AC wallbox provides tailored, intelligent and networked charging solutions for any business, home or location."

TERRA AC WALLBOX

Technical features

Load management

- Built-in energy meter
- Setup for external energy meter integration for dynamic load management
- Ready for integration with advanced smart building energy system

Design

- IEC variants:
  - Single phase up to 7.4kW / 32 A
  - Three phrase up to 22kW / 32A
- UL variants up to 19kW / 80A
- NEMA 4 and 4X enclosure
- All variants: IP54, IK10

Built-in safety

- Overcurrent
- Overvoltage and undervoltage
- Ground fault
- Surge protection
- PE (protective earth) continuity monitoring

Connectivity

- Ethernet RJ45
- Bluetooth
- Wifi
- 4G variants
- RS485/P1 for connection to energy meter
- OCPP 1.6
- Authentication via the App or RFID
- Configuration via the App or ABB web portal

Connectors

- Type 1 and type 2 cable
- Type 2 socket with or without shutter
- No need of extra hook, attached cable can be wrapped around the charger

130 YEARS

Brought to you by the global experts in smart mobility, smart buildings and smart homes, the Terra AC wallbox is built on ABB's **130-year heritage** of accessible technology leadership for safe, smart and sustainable electrification and informed by our comprehensive expertise in e-mobility.

1. Insert the AC input cable

1. Remove the membrane (A) from the EVSE

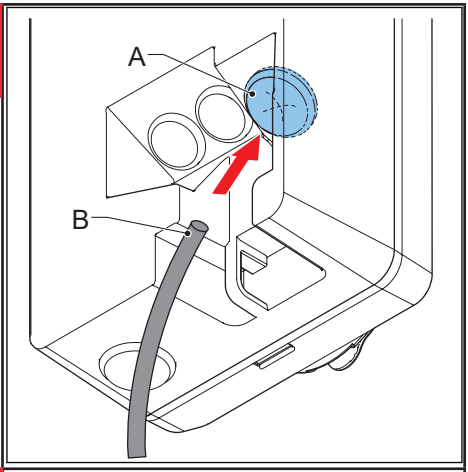
2. Make a hole in the center of the membrane

3. Install the membrane

4. Stripe the wires.

5. Push the wires through the membrane.

6. Put the AC input cable (B) through the inlet hole.



2. Connect the AC input cable

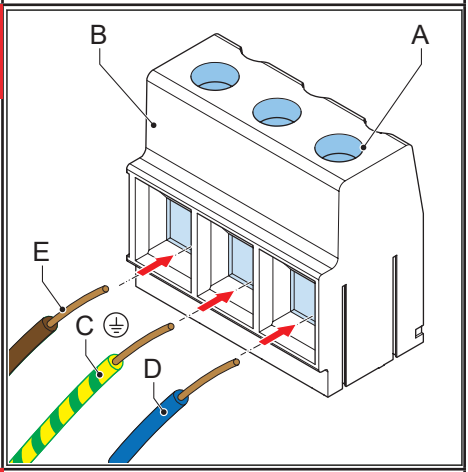
1. Loosen the screws (A)

2. Strip the wires.

3. Insert the cable connector into the terminal block (B)

4. Connect the below wires:
- Earthing wire (C)
- Neutral wire (D)
- AC input wire (E)

5. Tighten the screws (A) to the correct torque.



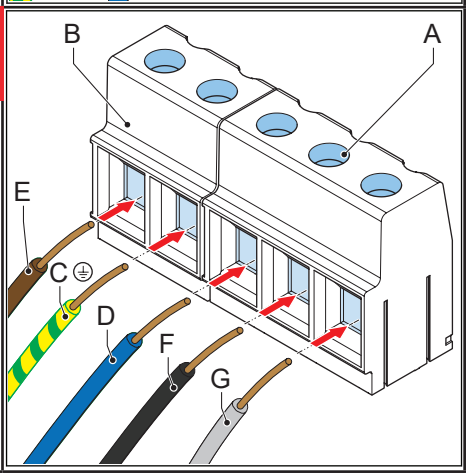
3. Connect the AC input cable (3 phase)

1. Loosen the screws (A)

2. Insert the cable connector into the terminal block (B)

3. Connect these wires:
- Earthing wire (C)
- Netural wire (D)
- L1 (E)
- L2 (F)
- L3 (G)

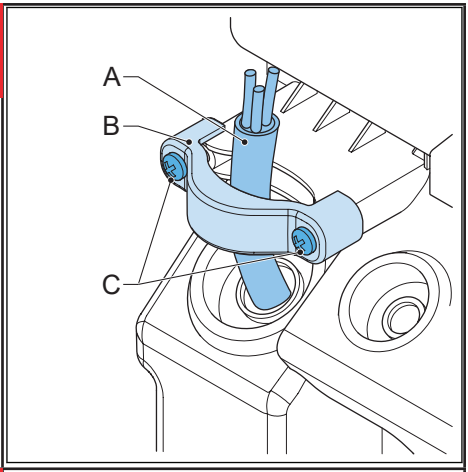
4. Tighten the screws (A) to the correct torque.



4. Secure the cables

1. Secure the cables (A) with the strain relief (B)

2. Install the two screws (C) of the strain relief.



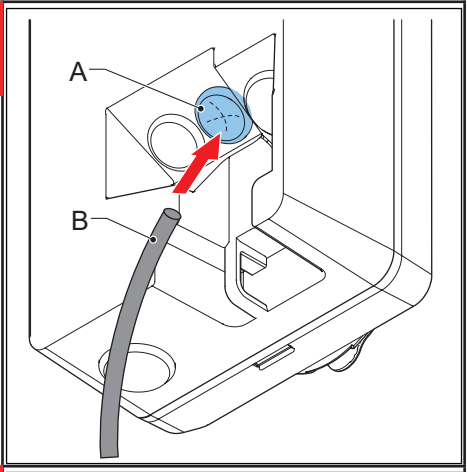
5. Insert the Ethernet cable

1. Remove the membrane (A) from the EVSE.

2. Make a hole in the center of the membrane.

3. Install the membrane.

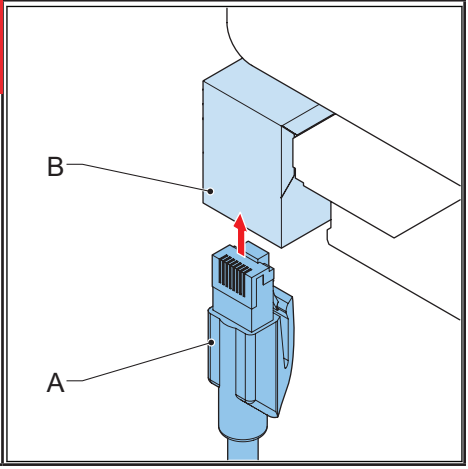
4. Put the Ethernet cable (B) through the cable inlet hole.



6. Connect the Ethernet cable

1. Put the RJ45 plug (A) of the Ethernet cable in the Ethernet RJ45 socket (B).

2. Connect the Ethernet cable to a PC, router, or gateaway.



7. Insert the wires for the smart meter communication

1. Remove the membrane (A) from the EVSE.

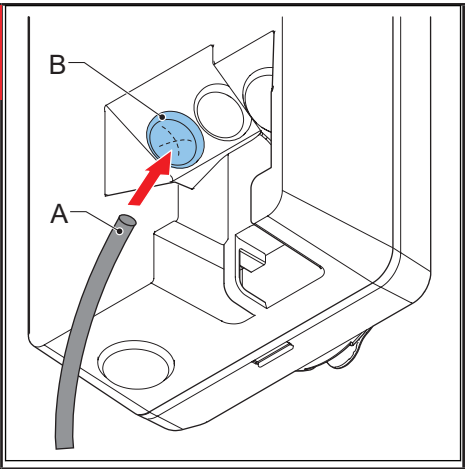
2. Make a hole in the center of the membrane.

3. Install the membrane.

4. If necessary, strip the cable to the correct length.

5. Push the wires through the membrane.

6. Put the cable (B) through the inlet hole.



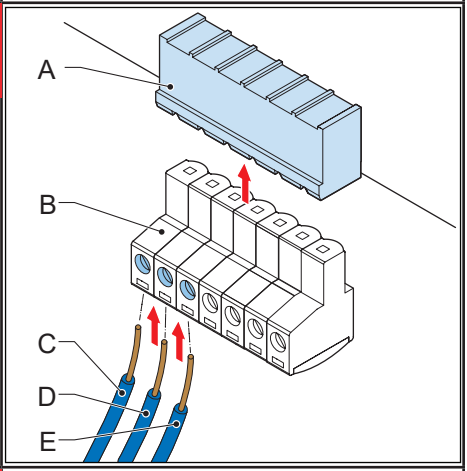
8. Connect the wires for the smart meter communication

1. Remove the plug (A) of the terminal block (B) of the smart meter connection.

2. Connect the wires:
a. Connect the positive wire (C)
b. Connect the negative wire (D)
c. If the smart meter has an earthing wire, connect the earth wire (E)

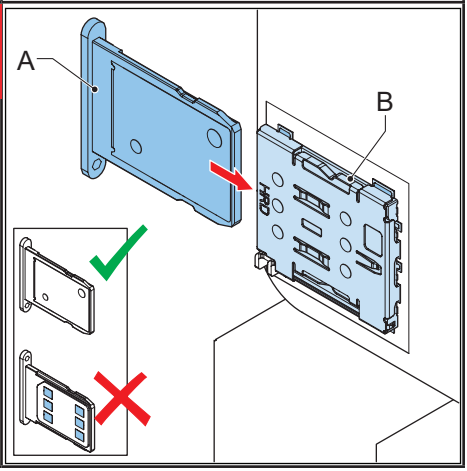
3. Tighten the screws to the correct torque.

4. Install the plug on the terminal block.



9. Insert Nano-SIM card

1. Insert the Nano-SIM card (A) into the socket (B). Make sure that the position of the connection points is correct.



9. Remove the EV charge cable

1. Get access to the EV charge cable connection:
a. Remove the cabinet cover.
b. Remove the maintenance cover
c. Remove the plastic cover

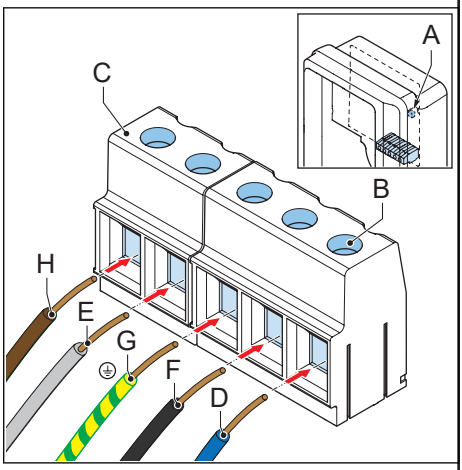
2. Disconnect the EV charger 2-pin connector (A) that is receptable to the CP/PP connector.

3. Loosen the screw (B) on the terminal block output connector (C)

4. Disconnect the wires:
- L1 (D) - Earthing wire (G)
- L2 (E) - Neutral wire (H)
- L3 (F)

5. Remove the EV charge cable.

6. Connect the new EV charge cable:
a. Connect the wires.
b. Tighten the screws (B) to the correct torque.
c. Connect the EV charger



Product & Accessories

Terra AC

	ESC CODE	DESCRIPTION
	6AGC082587	ABB Terra AC EV Charger 3.7kw 1ph 16A
	6AGC081278	ABB Terra AC EV Charger 7.4kw 1ph 32A
	6AGC082153	ABB Terra AC EV Charger 22kW 3P 32A with RFID4G
	EVL1P16AEVT2T2-5M	5 Meter EV Charging Cable 16A 1 Phase Type2 to Type2
	EVL1P16AEVT2T2-8M	8 Meter EV Charging Cable 16A 1 Phase Type2 to Type2
	EVL1P32AEVT2T1-8M	8 Meter EV Charging Cable 32A 1 Phase Type2 to Type1
	EVL1P32AEVT2T2-5M	5 Meter EV Charging Cable 32A 1 Phase Type2 to Type2
	EVL3P16AEVT2T2-8M	8 Meter EV Charging Cable 16A 3 Phase Type2 to Type2
	EVL3P32AEVT2T2-5M	5 Meter EV Charging Cable 32A 3 Phase Type2 to Type2
	EVL3P32AEVT2T2-8M	8 Meter EV Charging Cable 32A 3 Phase Type2 to Type2
	EVL1P32AEVT2T2-8M	8 Meter EV Charging Cable 32A 1 Phase Type2 to Type2
	EVPEDESTAL1	Single Pedestal for EV Charger
	EVPEDESTAL2	Double Pedestal for EV Charger

ESC
ELECTRICAL SUPPLY CORP

PO BOX 816, Hamilton 3240
4-8 Mainstreet Place
Hamilton 3200

sales@electrical.co.nz
+64 7 849 9119
0800 350 000