

SolarEdge Inverter Installation Guide Version 2.1, Erratum

This update replaces pages 50-53 of the *SolarEdge Installation Guide V2.1*.

The following explains how to connect Ethernet wires to the inverter.

- 1 Open the inverter cover.
- 2 Remove the seal from one of the two large openings in communication gland #1 and insert an Ethernet CAT5/6 cable through the opening.



CAUTION:

The internal side of the gland includes an O-ring, which should be used to ensure proper sealing.

- 3 Remove the cable's external insulation using a crimping tool or cable cutter and expose eight wires. CAT5/6 standard cables have eight wires (four twisted pairs), as shown in the table below. Wire colors may differ from one cable to another.









RJ45 Pin #	Wire Color (T568A)	Wire Diagram (T568A)*	10Base-T Signal 100Base-TX Signal
1	White/green		Transmit+
2	Green		Transmit-
3	White/Orange		Receive+
4	Blue		Unused
5	White/Blue		Unused
6	Orange		Receive-
7	White/Brown		Unused
8	Brown		Unused

Figure 1: Standard Cable Wiring

- 4 Depending on the inverter connector type (RJ45 or an 8-pin terminal block), connect as follows:

- If the inverter has an 8-pin terminal block connector for Ethernet communication:
 - Pull the connector out, as shown below:

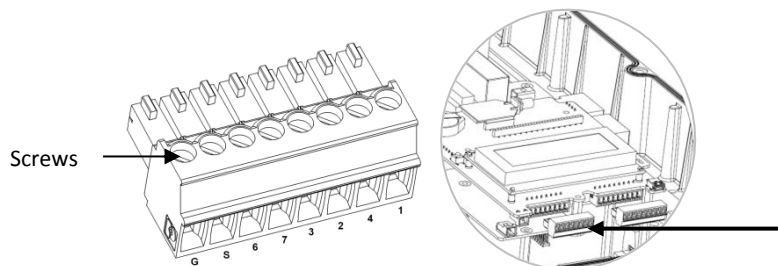


Figure 2: The 8-Pin Ethernet Terminal Block

- Loosen the screws, except for that of pin G. Insert the ends of the wires into the pins according to the following table:

Terminal Block	RJ45 Pin #	Color
1	1	White/green
2	2	Green
3	3	White/Orange
4	4 and 5	Blue + White/Blue
6	6	Orange
7	7 and 8	Brown + White/Brown
S	Aluminum shield	
G-unconnected		

- Tighten the screws of the Ethernet terminal block.
- Push the Ethernet terminal block firmly all the way into the communication board.

*The inverter connection has 568A layout and does not support RX/TX polarity change. Supporting crossover Ethernet cables depends on the switch capabilities.

- If the inverter has an RJ45 connector for Ethernet communication, use either a pre-terminated cable or the supplied RJ45 kit, and connect as follows:
 - Insert the eight wires into the RJ45 connector, as described below.
 - Use a crimping tool to crimp the connector.
 - Connect the Ethernet connector to the RJ45 plug on the inverter's communication board.

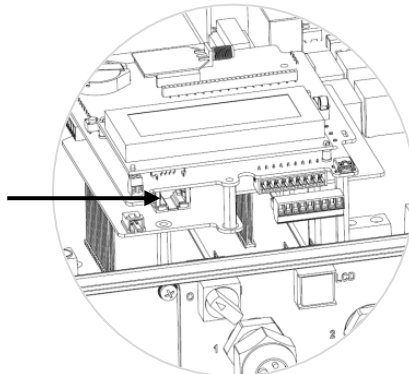


Figure 3: The RJ45 Ethernet Connector

Pin	Wire Color
1	White/green
2	Green
3	White/Orange
4	Blue
5	White/Blue
6	Orange
7	White/Brown
8	Brown

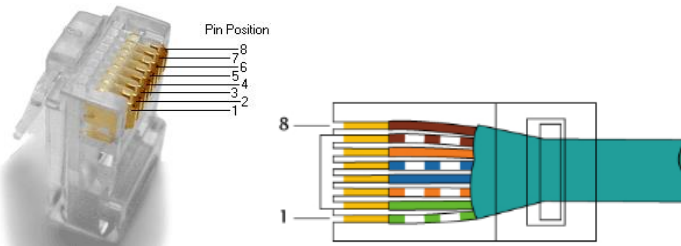


Figure 4: Inserting Wires into the RJ45 Connector

- 5 For the switch/router side, use a pre-terminated cable or use a crimper to prepare an RJ45 communication connector: Insert the eight wires into the RJ45 connector in the same order as in the figure above.
- 6 Connect the cable's RJ45 connector to the RJ45 port of the Ethernet switch or router. You can connect more than one inverter to the same switch/router or to different switches/routers, as needed. Each inverter sends its monitored data independently to the SolarEdge monitoring portal.
- 7 Inverters are configured by default to **LAN**. If the inverter is being reconfigured to **LAN**, use the user buttons to configure the connection.
- 8 Close the inverter cover, as described in the *Closing the Cover* section.
- 9 Verify the connection, as described in the *Verifying the Connection* section.



NOTE: If your network has a firewall, then you may need to configure it to enable the connection to the following address:

- Destination Address: prod.solaredge.com
- Port: 22222