





The installer should select the RCD and earthing configuration in accordance with the IET Code of Practice for Electric Vehicle Charging Equipment Installation and local regulations.

-- IT Requirements --

For the EO hub to talk to the EO server the following is required on the local network.

1. TCP ports 4455-4456 need to be open to allow the outgoing connection to be made to the EO server.
2. The hub also needs to get an IP address and a DNS server address on the local network from DHCP; once assigned its best if the IP address is reserved in the DHCP table.
3. We would prefer port 53 to be open for outgoing UDP and TCP traffic as it can help with diagnostics should it be needed.

Once the settings have been configured, it's possible to test the whether the ports are open by navigating to:

<http://porttest.eocharging.com:4455>
<http://porttest.eocharging.com:4456>

In both cases you should get an EO web page back telling you that the port is open, or if there is a problem your browser should respond with a timeout error; it also verifies that DNS is available.

-- eoHUB Checklist --

Power

Use existing connector (ideally with 3A fuse)

Charger coms

RJ45 Pin-1 (Gnd - Unused)
RJ45 Pin-2 (Gnd - Unused)
RJ45 Pin-3 (Gnd - Unused)
RJ45 Pin-4 (RS485 Blue)
RJ45 Pin-5 (RS485 Blue & White)
RJ45 Pin-6 (Gnd - Unused)
RJ45 Pin-7 (Gnd - Unused)
RJ45 Pin-8 (Gnd - Unused)

CT clamp(s)

Pin-1 (L1 white)
Pin-2 (L1 black)
Pin-3 (L2 white)
Pin-4 (L2 black)
Pin-5 (L3 white)
Pin-6 (L3 black)

Internet - Ethernet

RJ45 Pin-1 (Orange & White)
RJ45 Pin-2 (Orange)
RJ45 Pin-3 (Green & White)
RJ45 Pin-4 (Blue)
RJ45 Pin-5 (Blue & White)
RJ45 Pin-6 (Green)
RJ45 Pin-7 (Brown & White)
RJ45 Pin-8 (Brown)

-- Genius Checklist --

Power

Use existing connector as indicated

Charger coms

Twisted-pair Red (RS485 Blue)
Twisted-pair Black (RS485 Blue & White)
Twisted-pair Green (Unused)
Twisted-pair White (Unused)

The chargers are connected on a bus system so should be daisy-chained from one to another. For significant cable runs (say greater than 25m) then a 120Ω termination resistor should be connected across the twisted-pair at the beginning and end of the bus.