

Continuity of circuit protective conductors. R1 + R2 test. Write in column 15 of the test sheet

Note: this test is for ALL types of radial circuits, power or lighting. Do not perform this test on a power ring circuit as the readings will be false. Picture and details on p.103 of OSG.

This is the testing procedure for a multi-function Megger. For other makes the procedure may differ.

Nulling the leads. (Only null the leads once, when you first turn the machine on. It does not need to be nulled between tests)

Only perform this task once, the first time you turn the tester on. Place the crocodile clips on the test leads. Ensure the tester is set to ohms (Ω). For a Megger, turn the dial to the orange, Ohm setting. Once a reading has been given, press the test button. The value will go to zero and the display will show the circle in the top left hand corner.

1. Set your test machine to ohms (Ω).
2. Remove the live (brown) cable from the MCB and join it to the earth (green/yellow) cable. This can be done by joining the two cables in a connector block or simply connecting the live (brown) cable into any free space in the earth bar.
3. Remove the crocodile clips from the test leads and replace them with the probes. Now go to the furthest point on the circuit you are testing and place one probe on the earth (green/yellow) connection and the other probe on the live (brown) connection.
4. Write the reading in column 15 of the test sheet. This should be a low number.
5. Now remove the temporary link between live (brown) and earth (green/yellow) cables. Place the live (brown) back into its MCB and the earth (green/yellow) back into the earth bar.

You are measuring the resistivity of the live (brown) and earth (green/yellow) cables together, resistance is measured in ohms.