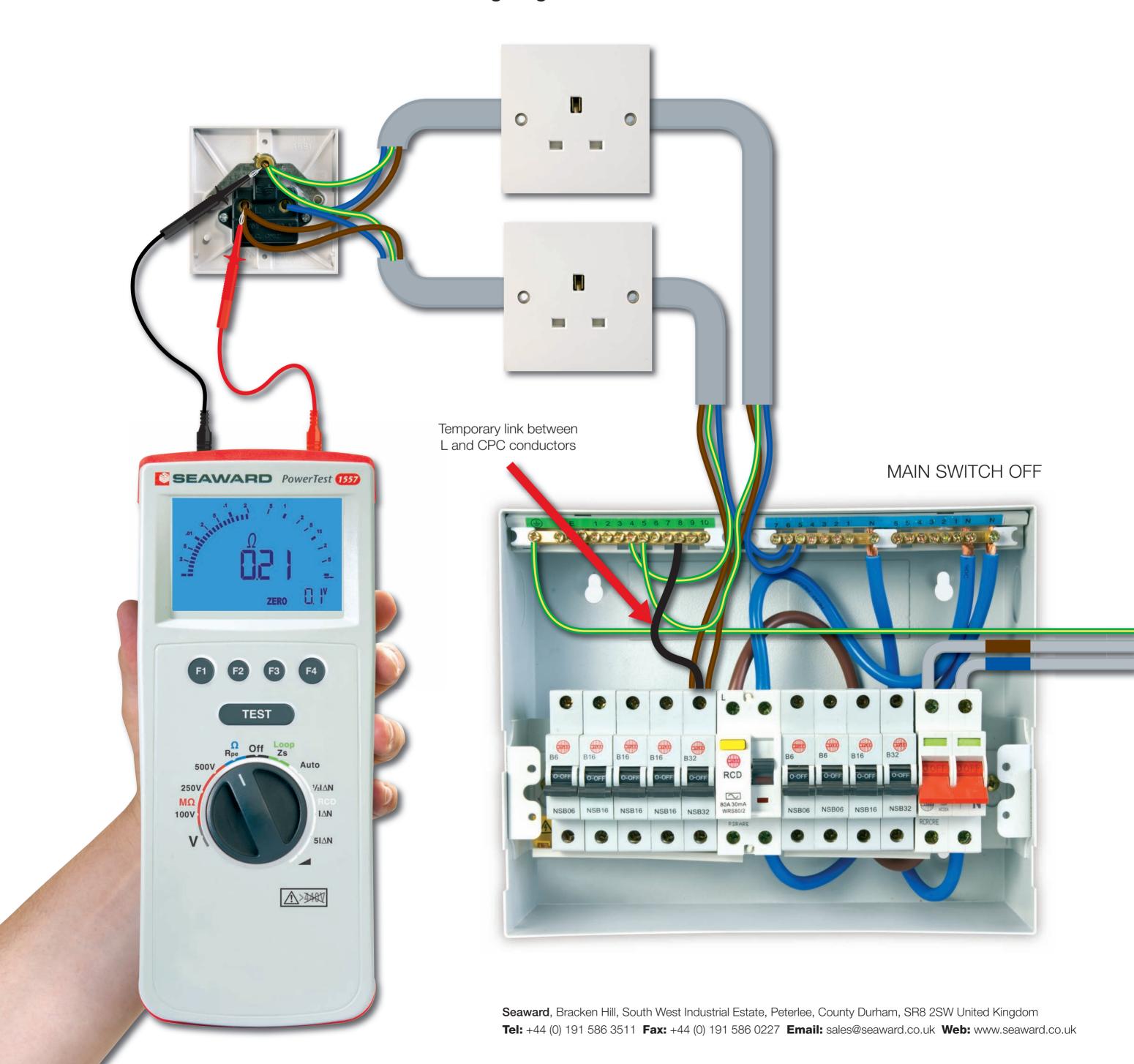


Measuring R1 + R2 for compliance with Regulation 612.2.1

A temporary link is made between the line and CPC conductors at the consumer unit. The resistance measured between line and CPC at the further point on the ring is R1 + R2

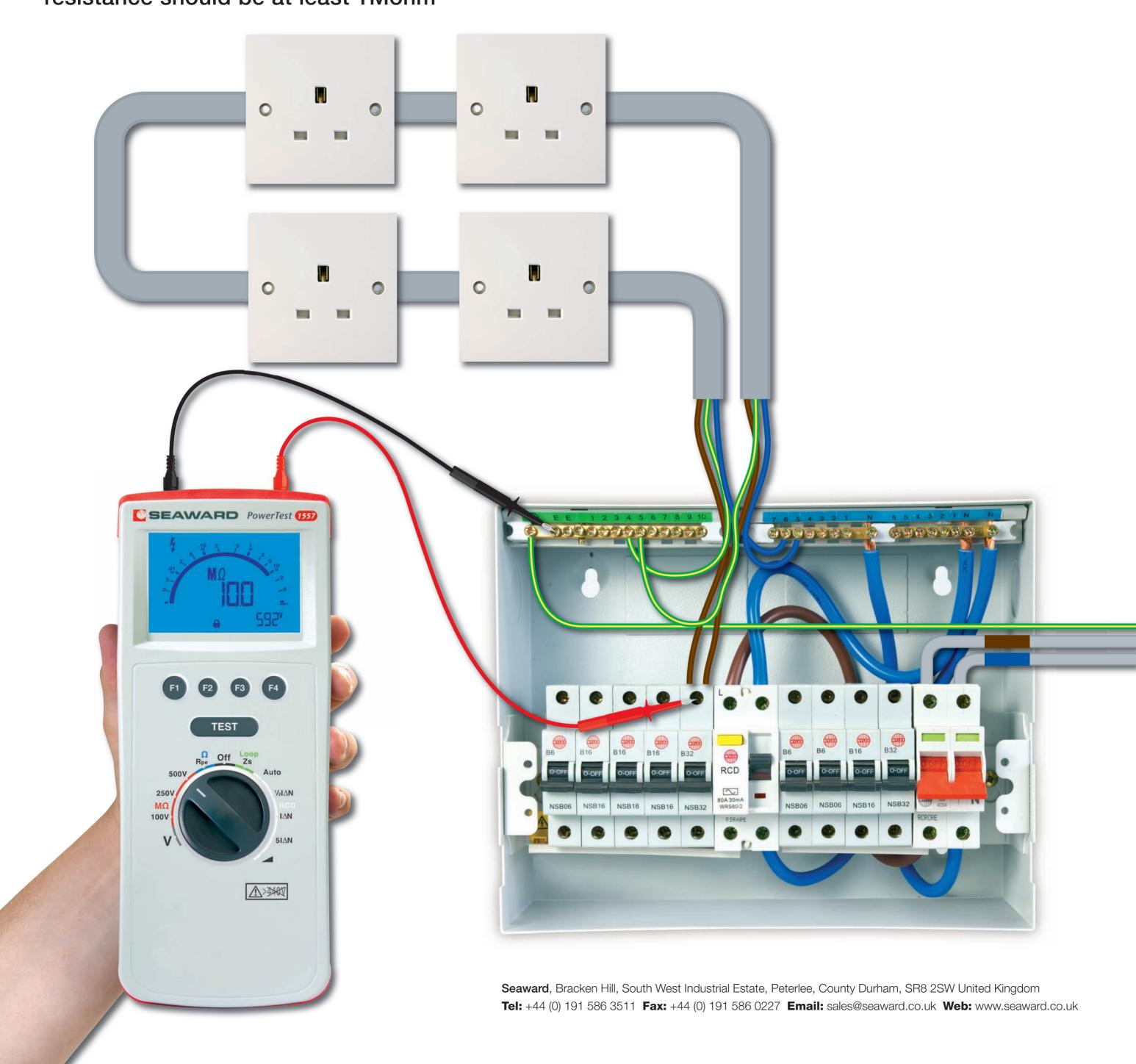
NOTE: The link must be removed before re-energising





Measuring insulation for compliance with Regulation 612.3

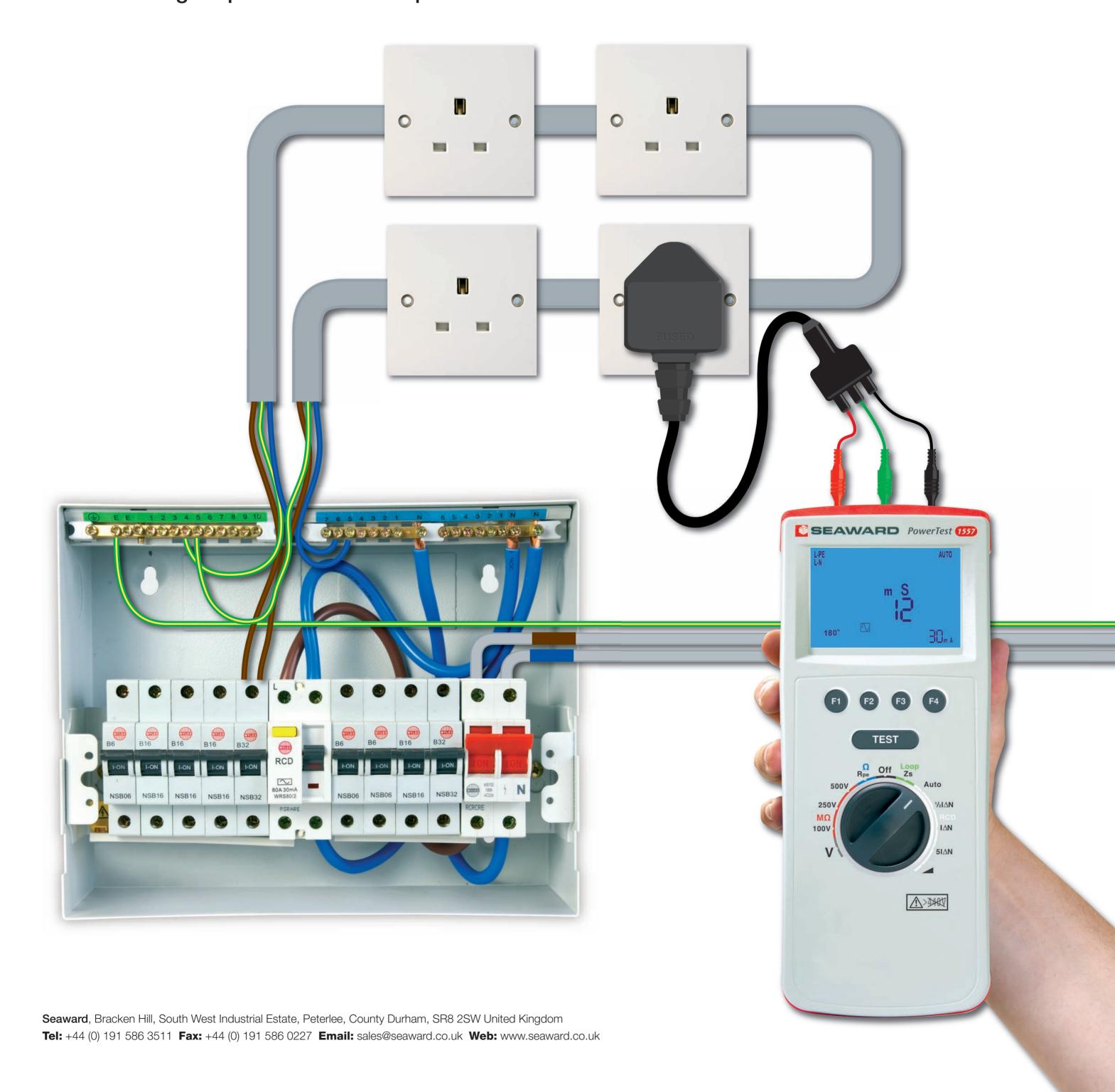
- ■Measurements are made between: Line and earth, neutral and earth and line and neutral.
- ■All lamps are removed and equipment or appliances disconnected.
- ■All switches in circuit are in the ON position.
- ■For circuits up to and including 500V the test voltage is 500V and the measured insulation resistance should be at least 1Mohm





RCD testing for compliance with Regulation 612.13.1

- ■Measurement of RCD trip is made at a mains outlet on the RCD protected ring circuit.
- ■The PowerPlus 1557 allows automatic measurement of trip time at 1/2 I \triangle n, I \triangle n and 5 I \triangle n at 0 and 180 degree phase whilst the operator resets the RCD at the consumer unit.





Measuring of the external earth fault loop impedance Z_E at the origin of the supply for compliance with Regulation 612.9

- ■The consumer unit must be proved to be isolated before disconnecting the earth conductor.
- $\blacksquare Z_{\vdash}$ is measured between the incoming line and protective earth.
- ■The protective earth conductor is not connected to the main earthing terminal (MET) to avoid the possible influence of parallel earth paths.

