THE EARTH ELECTRODE TEST, AND ZE

ZE. WHOSE CABLE ARE YOU TESTING?

WHERE THE EARTH ELECTRODE TEST FALLS

TT systems only, and the position in the sequence depends on the method.

METHOD	WHERE IN THE SEQUENCE	NOTE
E1	Before supply polarity	The accurate method, using spikes
E3	With the live tests — it is a loop impedance measurement	**The one most people will use.** Less accurate than E1, far more practical

ZE — WHOSE CABLE ARE YOU TESTING?

> The DNO's. Z_e is the loop outside your installation

Instrument	Earth fault loop impedance tester
Between	Line and earth — using the **earthing conductor**
Where	The **top** terminals of the main switch, or the supply side of a separate isolator
Leads	**Two-lead** test (line–earth). Three-lead if the instrument needs line, neutral and earth

It can be enquired.

The DNO will give you a figure for the supply. Z_s cannot be enquired, which is why it has to be calculated or measured.

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