

Electrical Test Results Schedule

An electrical test results schedule for a distribution board: every circuit with its device, cables, continuity, insulation resistance, polarity, Zs and RCD times, with warnings on readings that fail.

1. Board and supply

Project

Client

Site *

Site address

Date of the tests *

Time

Tested by *

Distribution board reference and location *

Scan the board label

Scanned in the SiteSurvey app. On paper, write the numbers: asset number.

Photos of the board (photos: attach, or note the file names)

Optional. The board with its cover on and off, the circuit chart and anything you found.

Earthing arrangement (choose one)

☐ TN-C-S (PME) ☐ TN-S ☐ TT ☐ Other

Earth fault loop impedance at the board, Ze or Zdb (Ω)

Ze at the origin, or Zdb at a sub-distribution board.

Prospective fault current (kA)

Test instrument, serial number and calibration date

This is a site record of the readings and checks. It is not the BS 7671 certificate or schedule itself: issue that from your registration scheme's or your certification software.

2. Circuits

Circuits tested (copy this block for each one)

Circuit number *

Circuit description *

Points served

Live conductor (mm²)

Protective conductor (mm²)

Protective device (choose one)

- ☐ MCB type B
- ☐ MCB type C
- ☐ MCB type D
- ☐ RCBO type B
- ☐ RCBO type C
- ☐ BS 88 fuse
- ☐ BS 1361 fuse
- ☐ BS 3036 rewirable fuse
- ☐ Other

Rating (A)

RCD type (choose one)

- ☐ Type AC
- ☐ Type A
- ☐ Type F
- ☐ Type B
- ☐ No RCD

Ring final circuit?

- ☐ Yes
- ☐ No

Ring end to end r1 (Ω) (if applicable)

Ring end to end rn (Ω) (if applicable)

Ring end to end r2 (Ω) (if applicable)

Difference between r1 and rn (Ω) (if applicable; worked out automatically in the app)

(r1 + r2) / 4, the expected R1 + R2 for the ring (Ω) (if applicable; worked out automatically in the app)

Continuity R1 + R2 (Ω)

$Z_e + (R_1 + R_2) (\Omega)$ (if applicable; worked out automatically in the app)
Ze or Zdb from page 1 plus R1 + R2. Compare it with the measured Zs below.

Insulation resistance test voltage (choose one)

☐ 250 V ☐ 500 V ☐ 1000 V

Insulation resistance, live to live ($M\Omega$)

Insulation resistance, live to earth ($M\Omega$)

If applicable: Below 1 $M\Omega$. The IET gives 1 $M\Omega$ as the minimum insulation resistance, with a 500 V d.c. test for circuits up to 500 V. Investigate before the circuit is put into service.

Polarity (choose one)

☐ Correct ☐ Fault

Earth fault loop impedance Zs, measured (Ω)

Maximum permitted Zs for this device (Ω)

From the BS 7671 tables or the device manufacturer.

Measured Zs as a share of the maximum (%) (if applicable; worked out automatically in the app)

If applicable: Measured Zs is above the maximum permitted for this protective device. The device may not disconnect in time.

RCD operating time at rated residual current (ms)

If applicable: Over 300 ms at the rated residual current. IET guidance gives 300 ms as the maximum for a general non-delay RCD (an S type time-delayed RCD may take up to 500 ms). Check or replace the RCD.

RCD or AFDD test button operates (choose one)

☐ Yes ☐ No ☐ Not fitted

Result * (choose one)

☐ Pass ☐ Fail

If applicable: Recorded as a pass, but a reading above is outside a limit the form checks. Check the reading and the result.

Observations (if applicable)

c_f_pass (worked out automatically in the app)

c_f_fail (worked out automatically in the app)

c_f_ir (worked out automatically in the app)

c_f_zs (worked out automatically in the app)

c_f_rcd (worked out automatically in the app)

Circuit retest readings (copy this block for each one)

One row per retest of this circuit. Record only the tests performed, with the test conditions and acceptance reference in the notes. The original circuit schedule and its calculations remain above.

Reading date and time *

Continuity R1 + R2 (Ω)

Insulation test voltage (V) (choose one)

☐ 250 ☐ 500 ☐ 1000

Insulation resistance: live to earth (M Ω)

Earth fault loop impedance Zs (Ω)

RCD operating time (ms)

Recorded result (choose one)

☐ Not assessed ☐ Pass ☐ Fail ☐ Not tested

Notes / action taken

Photos for this reading (photos: attach, or note the file names)

Circuits tested (worked out automatically in the app)

Circuits passed (worked out automatically in the app)

Circuits failed (worked out automatically in the app)

Insulation under 1 MΩ at 500 V (worked out automatically in the app)

Zs over the maximum (worked out automatically in the app)

RCD slower than 300 ms (worked out automatically in the app)

Highest Zs as a share of its maximum (%) (if applicable; worked out automatically in the app)

3. Actions and sign-off

Are further actions needed?

☐ Yes ☐ No

If applicable: A circuit failed, but no further action is recorded. Add what needs doing, who will do it and when.

Further actions (copy this block for each one; if applicable)

What needs doing? *

Who will do it?

Due date

Status (choose one)

☐ Open ☐ In progress ☐ Completed

Inspector name *

Position or company

Inspector signature

Signing records what was found on the day. It does not make unsafe equipment safe or replace a thorough examination, design check or service by a competent person.