



Electrical Installation Condition Report

Requirements for Electrical Installations - BS7671:2018
(IET Wiring Regulations 18th Edition)

Information for recipients:

The purpose of this report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see Section E). The report should identify any damage, deterioration, defects and/or conditions which may give rise to danger (see Section K).

The person ordering the report should have received the original report and the inspector should have retained a duplicate.

The original Report should be retained in a safe place and be made available to any person inspecting or undertaking work on the electrical installation in the future. If the property is vacated, this report will provide the new owner / occupier with details of the condition of the electrical installation at the time the report was issued.

Where the installation incorporates residual current devices (RCDs) there should be a notice at or near the devices stating that they should be tested every 6 months. **For safety reasons it is important that these instructions are followed.**

Section D (Extent and Limitations) should identify fully the extent of the installation covered by this report and any limitations on the inspection and testing. The Inspector should have agreed these aspects with the person ordering the report and with other interested parties (licencing authority, insurance company, mortgage provider and the like()) before the inspection was carried out.

Some operational limitations such as inability to gain access to parts of the installation or an item of equipment may have been encountered during the inspection. The inspector should have noted these in Section D.

For items classified in Section K as **C1 ("Danger Present")**, the safety of those using the installation is at risk, and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work immediately.

For items classified in Section K as **C2 ("Potentially Dangerous")**, the safety of those using the installation may be at risk and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.

Where it has been stated in Section K that an observation requires further investigation **code FI** the inspection has revealed an apparent deficiency which may result on a code C1 or C2 could not, due to the extent or limitations of this inspection, be fully identified. Such observations should be investigated as soon as possible. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).

For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a skilled person or persons competent in such work. The recommended date by which the next inspection is due is stated in Section F of the report under 'Recommendations' and on label at or near to the consumer unit/distribution board.



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for Domestic and Similar Premises up to 100 A

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A Details of the Installation

Client	Mr & Mrs Sudlow	Installation	
Address	10 Thirlmere Road Leicester	Address	7 Vaughan Street LEICESTER
Postcode	LE18 3RR	Postcode	LE3 5JN

B Reason for producing this report *This form is to be used only for reporting on the condition of an existing installation.*

Client Request

Date(s) on which the inspection and testing were carried out 03/01/2020 to 03/01/2020

C Details of installation which is the subject of this report

Description of premises Domestic Commercial Industrial Other (please specify)

Estimated age of the wiring system _____ years

Evidence of alterations or addition Yes No Not apparent if 'Yes', estimated _____ years

Records of installation available Yes No Records held by P S SUPRA

Date of last inspection 05/01/2015 Electrical Installation Certificate No. or previous Inspection Report No. 088

D Extent of electrical installation covered by this report:

Visual inspection of suppliers terminal equipment, all readily sockets found were tested and approx 25% accessories were removed for inspection

Agreed Limitations and Operational Limitations (Regulations 653.2)

no inspection in attic or heating and venting

Operational limitations including the reasons see page no 1 Agreed with: Client

The inspection and testing detailed within this report and accompanying schedule has been carried out in accordance with BS 7671: 2018 amended to

It should be noted that cables concealed within trunkings and conduits, under floors, in roof spaces and generally within the fabric of the building or underground have not been inspected unless specifically agreed between the client and inspector prior to the inspection. An inspection should be made within an accessible roof space housing other electrical equipment.

E Summary of the condition of the installation

General conditions of the installation (in terms of safety)
Satisfactory Condition

Overall assessment of the installation in terms of its suitability for continued use **SATISFACTORY** ***UNSATISFACTORY**

*An UNSATISFACTORY assessment indicates that dangerous (code C1), or potentially dangerous (code C2), Further investigation (code FI) conditions have been identified

F Recommendations

Where the overall assessment of the suitability of the installation for continued use above is stated as **UNSATISFACTORY** I/we recommend that any observations classified as 'Danger present' (code C1) or 'Potential dangerous' (code C2) are acted upon as a matter of urgency. Investigation without delay is recommended for observations identified as 'Further Investigation required' (code FI). Observations classified as 'Improvement recommended' (code C3) should be given due

consideration. Subject to the necessary remedial action being taken, I/we recommend that the installation is further inspected and tested by 03/01/2025 (date)

G Declaration

I/we being the person(s) responsible for the inspection and the testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing hereby declare that the information in this report, including the observations and the attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent and limitations in section D of this report.

Company	JP Electrical Leicester Ltd	Inspected and tested by	Authorised for issue by
Membership No.	26403	Name: Pravin Patel	Pravin Patel
Address	22 Foxglove Avenue, Thurnby, LEICESTER, Leicestershire	Signature: Pravin Patel	Pravin Patel
Postcode	LE7 9TX	Position: Electrician	Electrician
		Date: 03/01/2020	03/01/2020

H Schedule(s)

1 schedule(s) of inspection and 1 schedule(s) of test results are attached.

The attached schedule(s) are part of this document and this report is valid only when they are attached to it.



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I Supply characteristics and earthing arrangements

Earthing Arrangements TN-S TN-C-S TT Other Please specify _____

Number & Type of live conductors AC DC No. of phases 1 No. of wires 2

Nature of Supply Parameters (Note: ⁽¹⁾ by enquiry, ⁽²⁾ by enquiry or by measurement)

Nominal voltage, U/U₀ ⁽¹⁾ 230 v Nominal frequency, f⁽¹⁾ 50 Hz Confirmation of polarity

Prospective fault current, I_{pr} ⁽²⁾ 627 kA External loop impedance, Z_e ⁽²⁾ 0.22 Ω Or Z_{db} Source of Circuit _____

Supply Protective Device BS (EN) 1361 Type 2 Rated Current 100 A

Other Sources of Supply (as detailed on attached schedule) _____

J Particulars of installation referred to in this certificate

Details of installation Earth Electrode (where applicable) Type (e.g. rod(s), tape etc) _____

Location _____ Electrode resistance to earth _____ Ω

Means of Earthing Distributors facility Installation Earth Electrode

Main Protective Conductors	Material	csa	(✓) or Value	Maximum Demand (load)	60	Amps	<input checked="" type="checkbox"/>	KVA	<input type="checkbox"/>
Earthing Conductor	Copper	16	<input checked="" type="checkbox"/>	(connection / continuity) (✓) or Value	(✓) or Value				
Protective Bonding Conductor (to extraneous-conductive-parts)	Copper	10	<input checked="" type="checkbox"/>	Water installation	<input checked="" type="checkbox"/>	Ω	To structural steel	<input type="checkbox"/>	Ω
				Gas installation pipes	<input checked="" type="checkbox"/>	Ω	To lightning protection	<input type="checkbox"/>	Ω
				Oil installation pipes	<input type="checkbox"/>	Ω	Other	<input type="checkbox"/>	Ω

Main Supply Conductor Copper 25

Main Switch Location Downstairs Pantry

Fuse/device rating or setting 100 A Voltage rating 230 V BS(EN) 60947-3 No. of Poles 1 Current Rating 100 A

If RCD main switch: Rated residual operating current I_{Δn} _____ mA Rated time delay _____ ms Measured operating trip time _____ ms

K Observations

Referring to the attached schedule of inspection and test results, and subject to the limitations at Section D.

- No remedial work required
- The following observations are made

Explanation of codes

C1	Danger present. Risk of Injury. Immediate remedial action required.
C2	Potentially dangerous. Urgent remedial action required.
C3	Improvement recommended.
FI	Further Investigation required without delay

Item No.	Observations	Code
1	Plastic blanks in consumer unit - not stable or durable to meet required level of protection	C3
2	Combustible consumer unit	C3
3	No RCD protection for Cooker and lighting circuit	C3

One of the above codes, as appropriate, has been allocated to each of the observations made above and/or any attached observation sheets to indicate to the person(s) responsible for the installation the degree of urgency for remedial action.

C1	Danger present. Risk of Injury. Immediate remedial action required.	
C2	Potentially dangerous. Urgent remedial action required.	
C3	Improvement recommended.	1, 2, 3
FI	Further Investigation required without delay	

Outcomes

Acceptable condition: 	Unacceptable condition: State  or 	Improvement recommended: 	Further Investigation: 	Not Verified: 	Limitation: 	Not Applicable: 
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In the outcome column use the codes above. Provide additional comment where appropriate. C1/C2/C3 and FI coded items to be recorded in section K of the condition report.

Item No.	Description	Outcome
1.0 External Condition Of Intake Equipment (Visual Inspection Only) Where inadequacies are encountered, it is recommended that the person ordering the report informs the appropriate authority		
1.1	Service cable	
1.2	Service head	
1.3	Earthing arrangement	
1.4	Meter tails	
1.5	Metering equipment	
1.6	Isolator (where present)	
2.0	Presence Of Adequate Arrangements For Other Sources Such As Microgenerators (551.6; 551.7)	
3.0 Earthing / Bonding Arrangements (411.3; Chap 54)		
3.1	Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)	
3.2	Presence and condition of earth electrode connection where applicable (542.1.2.3)	
3.3	Provision of earthing/bonding labels at all appropriate locations (514.13.1)	
3.4	Confirmation of earthing conductor size (542.3; 543.1.1)	
3.5	Accessibility and condition of earthing conductor at MET arrangement (543.3.2)	
3.6	Confirmation of main protective bonding conductor sizes (544.1)	
3.7	Condition and accessibility of main protective bonding conductor/connections (543.3.2; 544.1.2)	
3.8	Accessibility and condition of other protective bonding connections (543.3.1; 543.3.2)	
4.0 Consumer Unit(s) / Distribution Board(s)		
4.1	Adequacy of working space/accessibility to consumer unit/distribution board (132.12; 513.1)	
4.2	Security of fixing (134.1.1)	
4.3	Condition of enclosure(s) in terms of IP rating etc (416.2)	
4.4	Condition of enclosure(s) in terms of fire rating etc (421.1.201; 526.5)	
4.5	Enclosure not damaged/deteriorated so as to impair safety (651.2)	
4.6	Presence of main linked switch (as required by 462.1.201)	
4.7	Operation of main switches (functional check) (643.10)	
4.8	Manual operation of circuit-breakers and RCD(s) to prove disconnection (643.10)	
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)	
4.10	Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2)	
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit/distribution board (514.14)	
4.12	Presence of alternative supply warning notice at or near consumer unit/distribution board (514.15)	
4.13	Presence of other required labelling (please specify) (Section 514)	
4.14	Compatibility of protective devices, bases and other components; correct type and rating (No signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 411.4; 411.5; 411.6; section 432.433)	
4.15	Single-pole switching or protective devices in line conductor only (132.14.1; 530.3.3)	
4.16	Protection against mechanical damage where cables enter consumer unit/distribution board (132.14.1; 522.8.1; 522.8.5; 522.8.11)	
4.17	Protection against electromagnetic effects where cables enter consumer unit/distribution board/enclosures (521.5.1)	
4.18	RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2)	
4.19	RCD(s) provided for additional protection / requirements - includes RCBOs (411.3.3; 415.1)	
4.20	Confirmation of indication that SPD is functional (651.4)	
4.21	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	
4.23	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	
5.0 Final Circuits		
5.1	Identification of conductors (514.3.1)	
5.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	
5.3	Condition of insulation of live parts (416.1)	
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking. Integrity of containment (521.10.1)	
5.4.1	To include the integrity of conduit and trunking systems (metallic and plastic)	
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	
5.6	Coordination between conductors and overload protective devices (433.1; 533.2.1)	
5.7	Adequacy of protective devices: type and rated current for fault protection (411.3)	
5.8	Presence and adequacy of circuit protective conductors (433.3.1; Section 543)	
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)	

5.10	Concealed cables installed in prescribed zones (see Section D. Extent and limitations) (522.6.202)	✔
5.11	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (see Section D. Extent and limitations) (522.6.204)	▲
5.12.1	for all socket-outlets of rating 32 A or less, unless an exception is permitted (411.3.3)	✔
5.12.2	For the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	✔
5.12.3	for cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	C3
5.12.4	for cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)	C3
5.12.5	for circuits supplying luminaires within domestic (household) premises (411.3.4)	✔
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)	✔
5.14	Band II cables segregated/separated from Band I cables (528.1)	▲
5.15	Cables segregated/separated from communications cabling (528.2)	▲
5.16	Cables segregated/separated from non-electrical services (528.3)	✔
5.17.1	Connections soundly made and under no undue strain (526.6)	✔
5.17.2	No basic insulation of a conductor visible outside enclosure (526.8)	✔
5.17.3	Connections of live conductors adequately enclosed (526.5)	✔
5.17.4	Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)	✔
5.18	Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))	✔
5.19	Suitability of accessories for external influences (512.2)	✔
5.20	Adequacy of working space/accessibility to equipment (132.12; 513.1)	✔
5.21	Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.3)	✔

6.0 Location(s) Containing A Bath Or Shower

6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)	✔
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	✔
6.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	N/A
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2018 (701.415.2)	✔
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3)	N/A
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	✔
6.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	✔
6.8	Suitability of current-using equipment for particular position within the location (701.55)	✔

7.0 Other Part 7 Special Installations Or Locations

7.01	List all other special installation or locations, if any (record separately the results of particular inspections applied).	
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8.0 Schedule of Tests Results to be recorded on Schedule of Test Results

8.1	External earth loop impedance, Ze	Yes	8.9	Insulation Resistance between Live Conductors	Yes
8.2	Installation earth electrode	N/A	8.10	Insulation Resistance between Live Conductors & Earth	Yes
8.3	Prospective fault current, Ipf	Yes	8.11	Polarity (prior to energisation)	Yes
8.4	Continuity of Earth Conductors	Yes	8.12	Polarity (after energisation) including phase sequence	Yes
8.5	Continuity of Circuit Protective Conductors	Yes	8.13	Earth Fault Loop Impedance	Yes
8.6	Continuity of ring final circuit	Yes	8.14	RCDs / RCBOs including selectivity	Yes
8.7	Continuity of Protective Bonding Conductors	Yes	8.15	Functional testing of RCD devices	Yes
8.8	Volt drop verified	Yes	8.16	Functional testing of AFDD(s) devices	N/A

Inspector's Name:	Pravin Patel
Date:	03/01/2020

Signature: *Pravin Patel*



Electrical Installation Condition Report Test Schedule

for Domestic and Similar Premises up to 100 A

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Client Mr & Mrs Sudlow	Installation Address 7 Vaughan Street, LEICESTER	Postcode LE3 5JN
Distribution board details - Complete in every case		Test instrument serial number(s)
Location: Downstairs Pantry	Supply to distribution board is from	Loop impedance: 101424091
Designation: DB1	Overcurrent protective device for the distribution circuit: No. of phases: Type: BS(EN)	Insulation resistance: 101424091
Num. of ways: 10	Nominal Voltage: Rating: A	Continuity: 101424091
	Supply polarity confirmed <input type="checkbox"/> Phase sequence confirmed <input type="checkbox"/>	RCD: 101424091
	Characteristics at this distribution board	
	Associated RCD(if any): BS (EN)	
	Operating at 1 IΔn ms	
	Operating at 5 IΔn ms	
	Z _s Ω No. of poles	
	I _{pn} kA IΔn ms	
	Time delay (if applicable)	

CIRCUIT DETAILS

TEST RESULTS

Circuit No. and Line No.	Distribution board Designation	Type of wiring	Ref. method	No. of points	Circuit conductors csa (mm ²)			Overcurrent protective devices			Breaking capacity (KA)	operating RCD (mA)	BS 7671 Max. permitted Z _s Other 80% (Ω)	Circuit impedance Ω			Insulation resistance (Record lower reading)			Polarity (✓)	Max. Measured Z _s (Ω)	RCD testing		Manual test button operation			
					L / N	CPC	Maximum disconnection	BS EN Number	Type No.	Rating (A)				Ring final circuits only (measured end-to-end)			Test voltage V	L/L, L/N M(Ω)	L/E, N/E M(Ω)			Above 30mA IΔn ms	30mA or below 5 IΔn ms	RCD (✓)	AFDD (✓)		
														r1	r _m	r2											
1	Cooker	A	C	1	6	4	0.4	60898	B	32	6	1.10				N/A	0.29	1000	>299	>299	✓	0.51			N/A	N/A	
2	Spare															N/A					N/A				N/A	N/A	
3	Lighting & Smoke Alarms	A	C	14	1.5	1	0.4	60898	B	6	6	5.82				N/A	0.58	1000	>299	>299	✓	0.58			N/A	N/A	
4	Spare															N/A					N/A				N/A	N/A	
5	Spare															N/A					N/A				N/A	N/A	
6	Electric Shower	A	C	1	6	4	0.4	60898	B	32	6	30	1.10				N/A	0.23	1000	>299	>299	✓	0.45	16	29	✓	N/A
7	Socket ring circuit	A	C	5	2.5	1.5	0.4	60898	B	32	6	30	1.10	0.32	0.32	0.86	N/A	0.28	1000	>299	>299	✓	0.50	16	29	✓	N/A
8	Socket ring circuit	A	C	6	2.5	1.5	0.4	60898	B	32	6	30	1.10	0.30	0.30	0.79	✓	0.26	1000	>299	>299	✓	0.48	16	29	✓	N/A
9	Spare															N/A					N/A				N/A	N/A	
10	Spare															N/A					N/A				N/A	N/A	

Details of circuits and/or installed equipment vulnerable to damage when testing: Boiler, Smoke alarms, Cooker hood

Date(s) dead testing: 03/01/2020 To 03/01/2020

Date(s) live testing: 03/01/2020 To 03/01/2020

Tested by: Name (capital letters) PRAVIN PATEL Position Electrician Date 03/01/2020

Signature Pravin Patel

Wiring Types: A PVC/PVC B PVC cables in metallic Conduit C PVC cables in non-metallic Conduit D PVC cables in metallic Trunking E PVC cables in non-metallic Trunking F PVC/SWA cables G SWA/XPLE cables H Mineral Insulated O Other