

ETHOS

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ELECTRICAL INSTALLATION CONDITION REPORTS

Conforms to the Wiring Regulations 17th Edition
BS 7671:2008 incorporating amendment 3:2015

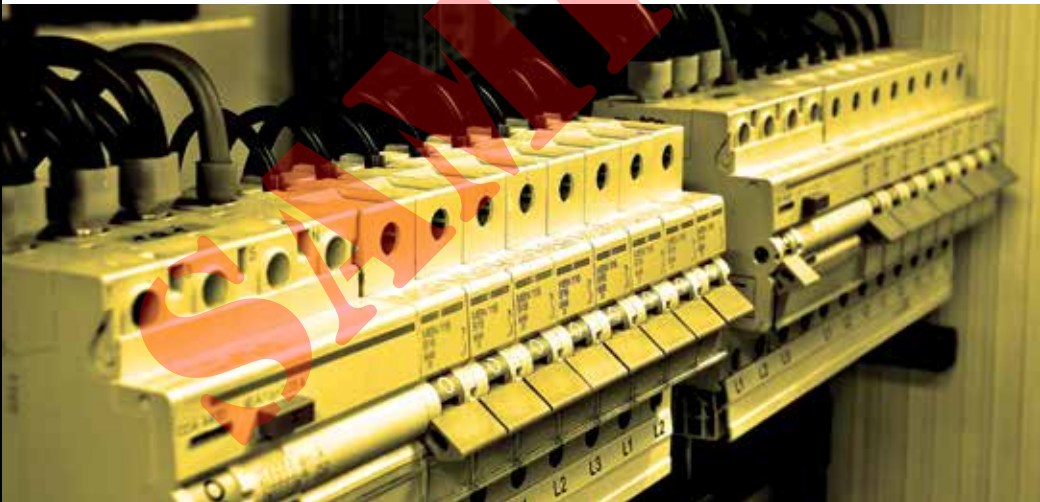
**ETHOS
7975**

**FOR DOMESTIC AND SIMILAR PREMISES
(WITH UP TO 100A SUPPLY)**

USE ETHOS 7976 FOR COMMERCIAL AND INDUSTRIAL ELECTRICAL INSTALLATIONS

EACH REPORT MUST BE ACCOMPANIED BY A SCHEDULE OF INSPECTIONS (INCLUDED WITHIN THIS PAD) AND ONE OR MORE SCHEDULES OF CIRCUIT DETAILS / TEST RESULTS.

ETHOS 7972 PROVIDES FOR UP TO 12 WAYS **ETHOS 7973** PROVIDES FOR UP TO 36 WAYS



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ELECTRICAL INSTALLATION CONDITION REPORT

REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS 7671 (IET Wiring Regulations)

REPORT No. _____

Page 1 of _____

(A) CLIENT DETAILS / PERSON ORDERING THE WORK

Name:

Address:

(B) PURPOSE OF THE REPORT

Purpose for which this report is required:

Date(s) on which the inspection and testing was carried out:

(C) DETAILS OF THE INSTALLATION

✓ tick box(es) where applicable

Occupier:

Installation address:

DESCRIPTION OF PREMISES: Domestic Commercial Industrial Other Description:

Estimated age of wiring system: years Evidence of alterations or additions: Yes No Not apparent

If "Yes", estimate age and give details:

Date of last inspection: Installation records available: Yes No Records held by:

(D) EXTENT AND LIMITATIONS OF THE INSPECTION AND TESTING

Extent of the electrical installation covered by this report:

Agreed limitations including the reason(s), if any, on the inspecting and testing:

Agreed with:

Operational limitations including the reasons (see page No(s).):

The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS 7671: 2008 (IET Wiring Regulations), as amended to.....

NOTE: Cables concealed in trunking 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 the 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

The general condition of the installation (in terms of electrical safety) is:

Additional pages were used to compile the summary of this installation. Yes/No See page(s).....

The overall assessment of the installation is: **SATISFACTORY/UNSATISFACTORY** (Delete as appropriate)

NOTE: An UNSATISFACTORY assessment indicates that one or more dangerous (Code C1) and/or potentially dangerous (Code C2) conditions have been identified.

(F) RECOMMENDATIONS

Where the overall assessment of the suitability of the installation for continued use (see E) is stated as UNSATISFACTORY, I/We recommend that any observations classified as 'Danger present' (Code C1) or 'Potentially dangerous' (Code C2) are acted upon as a matter of urgency. Investigation without delay is recommended for observations recommended as 'Further investigation required' (Code F). Observations that have been classified as 'Improvement recommended' (Code C3) should be given due consideration.

Subject to the necessary remedial action being taken, I/We* recommend that this installation is further inspected and tested by this date _____

(G) DECLARATION

I/We*, being the person(s) responsible for the inspection and 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 (See K) 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.

INSPECTED AND TESTED BY:

Name (Capitals):

Signature:

For/on behalf of:

Position:

Address:

Date:

REPORT REVIEWED AND CONFIRMED BY:

Name (Capitals):

Signature:

For/on behalf of:

Position:

Address:

Date:

(H) SCHEDULE(S)

THE PAGES IDENTIFIED BELOW ARE AN ESSENTIAL PART OF THIS REPORT, SO THE REPORT IS ONLY VALID WHERE ALL OF THE SCHEDULES IDENTIFIED ACCOMPANY THIS REPORT.

Inspections schedule, page nos.: Schedules of Circuit Details/Test Results, page no.:

NOTES FOR RECIPIENTS

This Report is an important and valuable document so retain it for future reference.

1. The purpose of this Electrical Installation Condition 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). It should not have been issued to confirm a new installation was safe to put in to service.
2. The person ordering the Report should have received the 'original' Report and the inspector should have retained a duplicate.
3. 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.
4. Where the installation incorporates a residual current device (RCD) there should be a notice at or near the device stating that it should be tested quarterly. For safety reasons it is important that this instruction is followed.
5. 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 (e.g. a licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.
6. Some operational limitations such as the inability to gain access to parts of the installation or an item of equipment may have been encountered during the inspection. Where this occurred, the inspector should have noted these in Section D.
7. 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 competent in electrical installation work undertakes the necessary remedial work immediately.
8. 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 competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.
9. 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 in a code C1 or C2, and could not, due to the extent or limitations of the inspection, be fully identified. Such observations should be investigated without delay. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).
10. 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 a label at or near to the consumer unit/distribution board.

ELECTRICAL INSTALLATION CONDITION REPORT

REPORT No. Page 2 of

(I) SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Notes: tick box(es) where applicable
(1) by enquiry
(2) by enquiry or by measurement

Number of Live Conductors: 2/3/4*	Type of live conductors: a.c./d.c.*	
Nature of Supply: State number of sources (to be detailed on attached schedules) Supply polarity confirmed <input type="checkbox"/>	Nominal voltage ⁽¹⁾ : U (V) U _o (V) Prospective fault current (earth fault/short-circuit) ⁽²⁾ : kA	Nominal frequency (f) ⁽¹⁾ : Hz External loop impedance (Z _e) ⁽²⁾ : Ω
Supply Protective Device:	BS (EN): Type:	Rated Current/Current Setting (I _n) A
System Type(s):	TN-S <input type="checkbox"/> TN-CS <input type="checkbox"/> TT <input type="checkbox"/> TN-C <input type="checkbox"/> IT <input type="checkbox"/>	

(J) PARTICULARS OF INSTALLATION AT THE ORIGIN

 tick box(es) where applicable
Maximum Demand (load): kVA/Amps per phase

Means of Earthing:	Distributor's Facility <input type="checkbox"/> Installation Earth Electrode <input type="checkbox"/>	
Details of Installation Earth Electrode: Location: Type (rod(s), tape etc.): Electrode Resistance to Earth (R _A): Ω Method of Measurement:		
Main Protective Conductors		<input checked="" type="checkbox"/> tick box(es) where applicable
Earthing Conductor:	Material: csa: mm ²	Continuity and connection(s) verified <input type="checkbox"/>
Protective Bonding Conductors (to extraneous-conductive-parts):	Material: csa: mm ²	Continuity and connection(s) verified <input type="checkbox"/>
To: Water Installation Pipes <input type="checkbox"/> Gas Installation Pipes <input type="checkbox"/> Oil installation pipes <input type="checkbox"/> Lightning protection <input type="checkbox"/> Structural Steel <input type="checkbox"/> Other <input type="checkbox"/> specify:		

Main Switch/Switch Fuse/Fuse Switch/Circuit-breaker/RCD

Location:

BS (EN) Type and No. of Poles:	Current Rating: A	Fuse/Device rating or setting: A	Voltage Rating: V
Rated Residual Operating Current (I _{Δn}): mA	Operating Time I _{Δn} : ms	NOTE: Applicable only where the RCD is suitable and is used as a main switch.	
Rated time delay: ms			

(K) OBSERVATIONS

Referring to the attached Schedule(s) of Inspection and Test Results, and subject to the limitations specified at the Extent and Limitations of the Inspection and Testing section.

No remedial action is required The following observations are made

Item No.	Observation(s) - Include schedule reference, as appropriate	CLASSIFICATION CODE

One of the following codes, as appropriate, has been allocated to each of the observations made above to indicate to the person(s) responsible for the installation the degree of urgency for remedial action.

Items that require action:

Code C1 - Danger present. Risk of injury. Immediate remedial action required.**Code C2 - Potentially dangerous. Urgent remedial action required.****Code C3 - Improvement recommended.****FI - Further investigation required without delay**

INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100 A SUPPLY

Suitable for many types of smaller installation not exclusively domestic

Report No.

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OUTCOMES	Acceptable condition	<input checked="" type="checkbox"/>	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Not Verified	N/V	Limitation	LIM	Not applicable	N/A	Further investigation required	F I
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1. DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT



(Adequacy and condition of)

Outcome

Comments and/or location

1.1	Service cable		
1.2	Service head		
1.3	Distributor's earthing arrangement(s)		
1.4	Distributor's and consumer's meter tails		
1.5	Metering equipment		
1.6	Means of isolation (where present)		

†The Distributor should be notified of any unsatisfactory equipment

2.0 PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES OF SUPPLY SUCH AS MICROGENERATORS (551.6; 551.7)

3. AUTOMATIC DISCONNECTION OF SUPPLY

3.1	Main earthing/bonding arrangements (411.3; Chap 54)		
	i) Presence and adequacy of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)		
	ii) Presence and adequacy of installation earth electrode arrangement (542.1.2.3)		
	iii) Adequacy of earthing conductor's CSA (542.3; 543.1.1)		
	iv) Adequacy and accessibility of earthing conductor connections (542.3.2)		
	v) Adequacy of main protective bonding conductor's/conductors' CSA (544.1)		
	vi) Adequacy and accessibility of all protective bonding connections (543.3.2)		
	vii) Provision of earthing and bonding labels at all appropriate locations (514.13)		
	viii) Adequacy and accessibility of other protective bonding conductors (543.3.2)		
3.2	Functional extra-low voltage (FELV) (411.7)		
	i) source provides at least simple separation		
	ii) all plugs, socket-outlets and similar are not interchangeable with any other systems within the installation		
3.3	Reduced low voltage (RLV) 110 V systems (411.8)		
	i) Adequacy of suitable source		
	ii) All plugs, socket-outlets and similar are not interchangeable with other systems within the premises		

4.0 OTHER METHODS OF PROTECTION

4.1	Electrical separation for one item of equipment		
4.2	SELV / PELV		
4.3	Double or reinforced insulation		

5.0 DISTRIBUTION EQUIPMENT

5.1	Adequacy of working space/accessibility to equipment (132.12; 513.1)		
5.2	Securely fixed (134.1.1)		
5.3	Condition of enclosure(s) in terms of IP rating etc (416.2)		
5.4	Condition of enclosure(s) in terms of fire rating etc (421.1.201; 526.5)		
5.5	Enclosure(s) not damaged/deteriorated so as to impair safety (621.2 (iii))		
5.6	Presence of main switch(es), linked where required (537.1.2; 537.1.4)		
5.7	Operation of main switch(es), to prove disconnection (functional check) (612.13.2)		
5.8	Presence and correct identification of circuit protective devices (514.8.1)		
5.9	Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 411.4.; 5; 6; Sections 432, 433)		
5.10	Adequacy of protective devices for prospective fault current (411.3)		
5.11	RCD(s) provided for fault protection – includes RCBOs (411.4.9; 411.5.2; 531.2)		
5.12	RCD(s) provided for additional protection – includes RCBOs (411.3.3; 415.1)		
5.13	RCD(s) provided for protection against fire – includes RCBOs (422.3.9; 532.1)		

*ALL 'outcome' boxes to be completed

This Schedule is based on the model form shown in Appendix 6 of BS 7671

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INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100 A SUPPLY

Suitable for many types of smaller installation not exclusively domestic

Report No.

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OUTCOMES	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Not Verified	N/V	Limitation	LIM	Not applicable	N/A	Further investigation required	F I
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*

Outcome

Comments and/or location

5.14	Manual operation of circuit-breakers and RCDs to prove disconnection (functional check) (612.13.2)													
5.15	Confirmation that the integral test button/switch causes RCD(s) to trip when operated (functional check) (612.13.1)													
5.16	Confirmation of indication that SPD(s) are functional													
5.17	Confirmation that single-pole switches or protective devices in line conductors only (132.14.1; 530.3.2)													
5.18	Presence of diagrams, charts or schedules at or near equipment, where required (514.9.1)													
5.19	Presence of RCD quarterly retest notice at or near equipment, where required (514.12.2)													
5.20	Presence of non-standard (mixed) cable colour warning notice at or near equipment where required (514.14)													
5.21	Presence of replacement next inspection recommendation label (514.12)													
5.22	Presence of other required labelling (please specify)													
5.23	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.11)													
5.24	Protection against electromagnetic effects (heating effects) where cables enter metallic (e.g. steel) enclosures (521.5.1)													
5.25	Adequate arrangements in place where a generating set (e.g. solar PV) operates as a switched alternative to the public supply (551.6)													
5.26	Adequate arrangements in place where a generating set (e.g. solar PV) operates in parallel with the public supply (551.7)													
5.28	Confirmation that ALL conductor connections, including connections to busbars/marshalling terminals are correctly located and are tight and secure													

6.0 DISTRIBUTION / FINAL CIRCUITS

6.1	Identification of conductors (by colour, numbers and/or lettering) (514.3.1)													
6.2	Cables correctly supported throughout their length, especially in escape routes (522.8.5)													
6.3	Condition of insulation of live parts (416.1)													
6.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)													
6.5	Containment system is suitable for continued use (including flexible conduit) (Section 522)													
6.6	Cables correctly terminated in enclosures (Section 526)													
6.7	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure (526.1)													
6.8	Cables show no signs of unacceptable thermal or mechanical damage/deterioration (421.1; 522.6)													
6.9	Cables are adequate for current-carrying capacity with regard for the type and nature of installation (Section 523)													
6.10	Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)													
6.11	Co-ordination between conductors and overload protective devices (433.1; 533.2.1)													
6.12	Wiring system appropriate to the type and nature of installation and external influences (Section 522)													
6.13	Where exposed to direct sunlight, cable(s) of a suitable type (522.11.1)													
6.14	Cables concealed under floors, above ceilings, in walls/partitions less than 50 mm from a surface, and in partitions containing metal													
	i) installed in prescribed zones (see Section D. Extent and limitations) (522.6.101)													
	ii) incorporate earthed armour or sheath, or be installed within an earthed wiring systems, or otherwise protected against mechanical sufficient to prevent damage by nails, screws and the like (see Section D. Extent and limitations) (522.6.101; 522.6.103)													
6.15	Provision of additional protection by 30 mA*													
	• for all socket-outlets of rating 20 A or less, unless exempt													
	• for mobile equipment not exceeding a rating of 32 A for use outdoors													
	• for cables installed in walls / partitions at a depth of less than 50 mm													
	• for cables installed in walls / partitions containing metal parts regardless of depth													
6.16	Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)													
6.17	Band II cables segregated/separated from Band I cables or insulated for highest voltage present (528.1)													
6.18	Cables segregated/separated from non-electrical services (528.3)													
6.19	General condition of wiring system(s) (621.2(ii))													
6.20	Temperature rating of cable insulation (522.1; Table 52.1)													

*ALL 'outcome' boxes to be completed

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*** Outcome** **Comments and/or location**

6.21	Condition of circuit accessories including socket-outlets, switches and joint boxes (621.2(ii))													
6.22	Suitability of circuit accessories for external influences (512.2)													
6.23	Single-pole devices for switching in line conductor only (132.14.1; 530.3.2)													
6.24	Termination of cables at enclosures (identify numbers and locations of items inspected in Section D)													
	• Connections soundly made and under no undue strain													
	• No basic insulation of a conductor visible outside enclosure													
	• Connections of live conductors adequately enclosed													
	• Adequately connected at point of entry to enclosure (gland, bush or similar)													
6.25	Adequacy of connections, including cpccs, within accessories and to fixed and stationary equipment, identify/record numbers and locations of items inspected (Section 526)													

7. CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)

7.1	Condition and suitability of equipment in terms of IP rating etc (416.2)													
7.2	Enclosure not damaged/deteriorated so as to impair safety (621.2(iii))													
7.3	Suitability for the environment and external influences (512.2)													
7.4	Equipment does not constitute a fire hazard (Section 421)													
7.5	Equipment is securely fixed (134.1.1)													
7.6	Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire; List number and location of luminaires inspected (separate page)													
7.7	Recessed luminaires (downlighters)													
	i) Correct type and rating of lamps fitted													
	ii) Installed to minimise build-up of heat by use of 'fire rated' fittings, insulation displacement box or similar (421.1.2)													
	iii) No signs of overheating to surrounding building fabric (559.4.1)													
	iv) No signs of overheating to conductors/terminations (526.1)													
7.8	Provision of undervoltage protection, where specified (Section 445)													
7.9	Provision of overload protection, where specified (Section 443; 552.1)													

8.0 LOCATION(S) CONTAINING A BATH OR SHOWER

8.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)													
	i) serving the location													
	ii) passing through zone 1 and/or zone 2 not serving the location													
8.2	Where used as a protective measure, requirements for SELV or PELV are met (701.414.4.5)													
8.3	Shaver sockets comply with BS EN 61558-2-5 or BS 3535 (701.512.3)													
8.4	Presence of supplementary bonding conductors, unless not required by BS 7671: 2008 (701.415.2)													
8.5	Low voltage (e.g. 230 V) socket-outlets installed at least 3m horizontally from the boundary of zone 1 (701.512.3)													
8.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)													
8.7	Suitability of equipment for installation in a particular zone (701.512.3)													
8.8	Suitability of current-using equipment for particular position within the location (701.55)													

9.0 OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS

9.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied.)													

*ALL 'outcome' boxes to be completed
This Schedule is based on the model form shown in Appendix 6 of BS 7671

Inspected by: _____
Name (Capitals): _____ Signature: _____ Date: _____