

NAPIT **Electrical Certificate** Installation/Modification

Requirements for Electrical Installations – BS 7671: 2008 incorporating Amendment No.3, 2015[IETWiring Regulations]

- 1** This safety Certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected and tested in accordance with British Standard 7671 (the IET Wiring Regulations).
- 2** You should have received an “original” Certificate and the contractor should have retained a duplicate. If you were the person ordering the work, but not the owner of the installation, you should pass this Certificate, or a full copy of it including the schedules, immediately to the owner.
- 3** The “original” Certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future.
- 4** If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of British Standard 7671 at the time the Certificate was issued.
- 5** The Construction (Design and Management) Regulations require that, for a project covered by those Regulations, a copy of this Certificate, together with schedules, is included in the project health and safety documentation.
- 6** For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a skilled person or persons competent in such work. The maximum time interval recommended before the next inspection is stated on Page 1 under “NEXT INSPECTION”.
- 7** This Certificate is intended to be issued only for a new electrical installation or for new work associated with an addition or alteration to an existing installation. It should not have been issued for the inspection of an existing electrical installation. An “Electrical Installation Condition Report” should be issued for such an inspection.
- 8** This Certificate is only valid if accompanied by the schedual of inspections and the schedual(s) of test results



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All items inspected to confirm as appropriate, compliance with the
relevant clauses in BS 7671

NA/EIC

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1 Details of the installation

Client
Address

Installation (if different from client)
Address

Postcode

Postcode

2 Description, extent and limitations of the installation (note 5)

Installation is New Addition Alteration ☒ Records available Yes No ☒ Date of original installation

Description of installation

Extent of installation covered by this Certificate

Domestic

Installation of new 10 way CCU
Installation of new earth rod

Details of departures from BS 7671 (Regulations 120.3 and 133.5)

Details of permitted exceptions. [Regulation 411.3.3] Where applicable a suitable risk assessment[s] must be attached to this certificate

Risk assessment attached

3 For design, construction, inspection and testing [For sole person responsibility.] [For multiple persons responsibility complete sec. 4,5,6]
I being the person responsible for design, construction, inspection and test of the electrical installation (as indicated by my signature below), particulars of which are described in Section 2, having exercised reasonable skill and care when carrying out the design, construction, inspection and test hereby CERTIFY that the design, construction, inspection and test for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671:2008, amended to 2015 (date).
The extent of liability of the signatory or the signatories is limited to the work described in Section 2 as subject of this certificate. For the DESIGN / CONSTRUCTION / INSPECTION AND TEST of the installation:

Company name
Installer
Company address

Signature

Position Inspector
Date 20/03/2017
NAPIT membership N

Postcode

4 For construction [If different from sec. 3]
I being the person responsible for construction of the electrical installation (as indicated by my signature below), particulars of which are described in Section 2, having exercised reasonable skill and care when carrying out the construction hereby CERTIFY that the construction work for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671:2008, amended to (date).

The extent of liability of the signatory or the signatories is limited to the work described in Section 2 as subject of this certificate.

For the CONSTRUCTION of the installation:

Company name
Installer
Company address

Signature

Position
Date
NAPIT membership No.

Postcode

5 For inspection and testing [If different from sec. 3]

I the person responsible for the inspection and testing of the electrical installation (as indicated by my signature below), particulars of which are described in Section 2, having exercised reasonable skill and care when carrying out the inspection and testing hereby CERTIFY that the work for which I have been responsible is to the best of my knowledge and belief in accordance with BS 7671:2008, amended to (date).

The extent of liability of the signatory or the signatories is limited to the work described in Section 2 as subject of this certificate.

For the INSPECTION AND TESTING of the installation:

Company name
Inspector
Company address

Signature

Position
Date
NAPIT membership No.

Postcode

Next inspection

I/we the designer[s] recommend that this installation is further inspected after an interval of not more than 5 years/months.

This form is based on the requirements of Appendix 6 of BS 7671

NAPIT Administration Centre, 4th Floor, Mill 3, Pleasley Vale Business Park, Mansfield, Nottinghamshire NG19 8RL

NA/EIC/CF/001 (V3)



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For Designer 1 [If different from sec. 3]

Company name
Designer
Company address

Postcode

Date

NAPIT membership No.

For Designer 2** (if applicable) [If different from sec. 3]

Company name
Designer
Company address

Postcode

Date

NAPIT membership No.

I/we being the person(s) responsible for design of the electrical installation (as indicated by my/our signature below), particulars of which are described in Section 2, having exercised reasonable skill and care when carrying out the design hereby CERTIFY that the designwork for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with

BS 7671:2008, amended to (date).

Signature

I/we being the person(s) responsible for design of the electrical installation (as indicated by my/our signature below), particulars of which are described in Section 2, having exercised reasonable skill and care when carrying out the design hereby CERTIFY that the design work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with

BS 7671:2008, amended to (date).

Signature

7

Supply characteristics and earthing arrangements

Earthing Arrangements TN-S TN-C-S TT ☒ Other Please specify:

Number & type of live conductors a.c. ☒ d.c. No. of phases 1 No. of wires 2

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

Nominal voltage, U/U_0 (°) 230 V Nominal frequency, f (°) 50 Hz Confirmation of supply polarity ☒

Prospective fault current, I_{pf} (°) 1.15 kA External loop impedance, Z_e (°) 12.3 Ω

Supply Protective Device BS(EN) 1361 Type 2 Rated Current n/c A

Other Sources of Supply (as detailed on attached schedule)

8

Particulars of installation referred to in this certificate

Means of Earthing Distributor's facility Installation earth electrode ☒

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

Location Side of driveway

Electrode resistance to earth 12.3 Ω

Maximum demand

Max Demand (load) 60 kVA/Amps (delete as appropriate)

Main Protective Conductors Material Csa (mm²) Verified connection / continuity..

Main Earthing Conductor Copper 16 ☒ To water installation pipes ☒ To structural steel ☐

Protective Bonding Conductor Copper 10 ☒ To gas installation pipes ☒ To lightning protection ☐

Supply Conductors Copper 25 ☒ To oil installation pipes ☐ Other ☐

Main Switch / Switch Fuse / Circuit Breaker / RCD

Location Bedroom BS(EN) 60947-3 No. of Poles 2 Current rating 100 A

Fuse/device rating or setting A Voltage rating V

If RCD main switch: Rated residual operating current $I_{\Delta n}$ = mA Rated time delay ms (at $I_{\Delta n}$)

Measured operating trip time ms

Comments on existing installation (in the case of addition or alteration see Section 633)

Lighting circuit number 8 does not have an earth conductor, no metal fittings should be fitted to this circuit unless they are double insulated

(For additions or alterations) cables concealed within trunking and conduits, or cables or conduits concealed under floors, in roof spaces and generally within the fabric of the building or underground may not have been inspected. Schedule of inspections & test results attached.

This form is based on the requirements of Appendix 6 of BS 7671

NAPIT Administration Centre, 4th Floor, Mill 3, Pleasley Vale Business Park, Mansfield, Nottinghamshire NG19 8RL

NA/EIC/CF/001 (V3)



Electrical Certificate Installation/Modification inspection Schedule

for Domestic and Similar Premises with up to 100A Supply

Requirements for Electrical Installations – BS 7671:2008 incorporating Amendment No.3, 2015 [IET Wiring Regulations 17th Edition]

All items inspected to confirm as appropriate, compliance with the relevant clauses in BS 7671

NA/EIC

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A Schedule of Inspections Outcomes

Insert tick to indicate an inspection has been carried out and the result is satisfactory



Insert N/A to indicate that the inspection is not applicable to a particular item:

N/A

Item No.	Description	Outcome
1.0	DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT	
1.1	Condition of service cable	✓
1.2	Condition of service head	✓
1.3	Condition of distributor's earthing arrangement	N/A
1.4	Condition of meter tails - Distributor/Consumer	✓
1.5	Condition of metering equipment	✓
1.6	Condition of isolator (where present)	✓
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY	
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply [551.6]	N/A
2.2	Adequate arrangements where a generating set operates in parallel with the public supply [551.7]	N/A
3.0	AUTOMATIC DISCONNECTION OF SUPPLY	
3.1	Presence and adequacy of earthing and protective bonding arrangements.	
3.1.1	Installation earth electrode (where applicable) [542.1 2.3]	✓
3.1.2	Earthing conductor and connections including accessibility [542.3;543.3.2]	✓
3.1.3	Main protective bonding conductors and connections including accessibility [411.3.1.2;543.3.2]	✓
3.1.4	Provision of safety electrical earthing / bonding labels at all appropriate locations [514.13]	✓
3.1.5	RCD s provided for fault protection [411.4.9: 411.5.3]	✓
4.0	BASIC PROTECTION	
4.1	Presence and adequacy of measures to provide basic protection [prevention of contact with live parts] within the installation;	
4.1.1	Insulation of live parts eg. conductors completely covered with durable insulation materials [416.1]	✓
4.1.2	Barriers or enclosures eg. correct IP rating [416.2]	✓
5.0	ADDITIONAL PROTECTION	
5.1	Presence and effectiveness of additional protection methods	
5.1.1	RCD s not exceeding 30 mA operating current [415.1; Part 7] see Item 8.14 of this schedule	✓
5.1.2	Supplementary bonding [415.2· Part 7]	N/A
6.0	OTHER METHODS OF PROTECTION	
6.1	Presence and effectiveness of methods which give both basic and fault protection:	
6.1.1	SELV systems including the source and associated circuits [414]	N/A
6.1.2	PELV systems including the source and associated circuits [414]	N/A
6.1.3	Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits [412]	N/A
6.1.4	Electrical separation for one item or equipment eg. shaver supply unit [413]	N/A
7.0	CONSUMER UNIT[S] DISTRIBUTION BOARD[S]	
7.1	Adequacy of access and working space for items of electrical equipment including switchgear [132.12]	✓
7.2	Presence of linked main switch(s) [537.1.4: 537.1.5: 537.1.6]	✓
7.3	Isolators for every circuit or group of circuits and all items of equipment [537.2]	✓
7.4	Suitability of enclosure(s) for IP and fire rating as [416.2 : 421.1.6: 421.1.201]	✓
7.5	Protection against mechanical damage where cables enter equipment [522.8.1;522.8.11]	✓
7.6	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure [526.1]	✓
7.7	Avoidance of heating affects where cables enter ferromagnetic enclosures eg. steel [521.5]	✓
7.8	Selection of correct type and ratings or circuit protective devices for overcurrent and fault protection [432;433;411.3.2;411.4.5.6; sections 432,433]	✓



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NA/EIC

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Schedule of Inspections

Outcomes

Insert tick to indicate an inspection has been carried out and the result is satisfactory ✓

Insert N/A to indicate that the inspection is not applicable to a particular item:

N/A

CONSUMER UNIT(S) DISTRIBUTION BOARD(S) continued

Outcome

7.9 Presence of appropriate circuit charts warning and other notices:

7.9.1	Provision of circuit charts/schedules or equivalent forms of information [514 .9]	✓
7.9.2	Warning notice of method or isolation where live parts not capable of being isolated by a single device [514.11]	N/A
7.9.3	Periodic inspection and testing notice [514.12.1]	✓
7.9.4	RCD quarterly test notice. where required [514.12.2]	✓
7.9.5	Warning notice of non-standard mixed colours of conductors present [514.14]	✓
7.10	Presence of labels to indicate the purpose of switchgear and protective devices [514.1 1 ; 514 .8]	✓

8.0 CIRCUITS

8.1	Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation [523]	✓
8.2	Cable installation methods suitable for the location(s) and external influences [522]	✓
8.3	Segregation /separation of Band I [ELV] and Band II [LV] circuits, and electrical and non-electrical services [528]	N/A
8.4	Cables correctly erected and supported throughout including escape routes, with protection against abrasion [521:522]	✓
8.5	Provision of fire barriers sealing arrangements where necessary [527.2]	✓
8.6	Non-sheathed cables enclosed throughout in conduit, ducing or trunking [521.10.1: 526.8]	N/A
8.7	Cables concealed under floors, above ceilings or in wall / partitions, adequately protected against damage [522.6.201,202,204]	✓
8.8	Conductors correctly identified by colour, lettering or numbering [514]	✓
8.9	Presence, adequacy and correct termination of protective conductors [411.3.1.1 : 543.1]	
8.10	Cables and conductors correctly connected enclosed and with no undue mechanical strain [526]	✓
8.11	No basic insulation of a conductor visible outside enclosure [526.8]	✓
8.12	Single-pole devices for switching or protection in line conductors only [132.14.1: 530.3.2]	✓
8.13	Accessories not damaged, securely fixed, correctly connected suitable for external influences [134.1.1: 526; 521.2]	✓
8.14	Provision of additional protection by RCD not exceeding 30mA:	
8.14.1	Socket-outlets rated at 20 A or less unless exempt [411.3.3]	✓
8.14.2	Mobile equipment with a current rating not exceeding 32 A for use outdoors [411.3.3]	✓
8.14.3	Cables concealed in walls at a depth of less than 50 mm [522.6.202 : 522.6.203]	✓
8.14.4	Cables concealed in walls /partitions containing metal parts regardless of depth [522.6.202; 522.6.203]	N/A
8.15	Presence of appropriate devices for isolation and switching correctly located including:	
8.15.1	Means or switching off for mechanical maintenance [537.3]	✓
8.15.2	Emergency switches [537. 4]	N/A
8.15.3	Functional switches, for control of parts of the installation and current-using equipment [537. 5]	✓
8.15.4	Firefighter's switches [537. 6]	N/A

Date 20/03/2017

Signature



Electrical Certificate Installation/Modification Inspection Schedule

for Domestic and Similar Premises with up to 100A Supply

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All items inspected to confirm as appropriate, compliance with the relevant
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NA/EIC

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Schedule of Inspections

Outcomes

Insert tick to indicate an inspection has been carried out and the result is satisfactory



Insert N/A to indicate that the inspection is not applicable to a particular item:

N/A

9.0 CURRENT-USING EQUIPMENT [PERMANENTLY CONNECTED]

Outcome

- | | | |
|-----|---|-----|
| 9.1 | Equipment not damaged, securely fixed and suitable for external influences [134.1.1; 416.2; 512.2] | ✓ |
| 9.2 | Provision of overload and/of under voltage protection eg. for rotating machines if required [445;552] | N/A |
| 9.3 | Installed to minimise the build up of heat and restrict the spread of fire [421.1.4; 559.4.1] | ✓ |
| 9.4 | Adequacy of working space/accessibility to equipment [132.12; 513.1] | ✓ |

10.0 LOCATION[S] CONTAINING A BATH OR SHOWER [SECTION 701]

- | | | |
|------|--|---|
| 10.1 | 30 mA RCD protection for all LV circuits, equipment suitable for the zones. supplementary bonding [where required] etc | ✓ |
|------|--|---|

11.0 OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS

- | | | |
|------|---|-----|
| 11.1 | List all other special installations or locations present. if any [Record separately the results of particular inspections applied] | N/A |
|------|---|-----|

Schedule of Tests

Results to be recorded on Schedule of Test Results

- | | | | |
|----|---|---|--|
| ✓ | External earth loop impedance, Ze | ✓ | Insulation Resistance between Live conductors |
| ✓ | Installation earth electrode | ✓ | Insulation Resistance between Live conductors & Earth |
| ✓ | Prospective fault current Ipf | ✓ | Polarity (prior to energisation) |
| ✓ | Continuity of Earth Conductors | ✓ | Polarity (after energisation) including phase sequence |
| ✓ | Continuity of Circuit Protective Conductors | ✓ | Earth fault loop impedance |
| ✓ | Continuity of ring final conductors | ✓ | RCDs / RCBOs including discrimination |
| ✓ | Continuity of Protective Bonding Conductors | ✓ | Functional testing of devices |
| NA | Volt drop verified | | |

(insert ✓ or N/A)

Date 20/03/2017

Signature



NAPIT Electrical Test Schedule

Requirements for Electrical Installations – BS 7671:2008 incorporating Amendment No.3 2015
[IET Wiring Regulations 17th Edition]

EIC

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Installation address:

Complete in every case

Location of distribution board
Bedroom
Distribution board designation
DB 1
Number of ways
10x sp

Supply to distribution board is from
N/A

Overcurrent protective device for the distribution circuit:
Type BS(EN) N/A

Supply polarity confirmed

Overcurrent protective device for the distribution circuit:
Type BS(EN) N/A

Supply polarity confirmed

Phase sequence confirmed

Characteristics at this distribution board

Operating times of t_n ms

At $I_{\Delta n}$ N/A

Associated RCD (if any): BS (EN)

N/A

RCD No of Poles

Test instrument serial number(s)

Earth fault loop impd. 5159

Insulation resistance 5159

Continuity 5159

RCD 5159

Postcode

CIRCUIT DETAILS

Circuit No. and line No.	Circuit designation	Type of wiring	Ref. method	No. of points served	Circuit conductors		Maximum disconnection time (BS:7671) (s)	Overcurrent protective devices				RCD operating current I _{Δn} (mA)	BS7671 Max. permitted value Z _s Others 80% Ω	Circuit impedance Ω						Insulation resistance (Record lower reading)		RCD testing			
					Live (mm ²)	CPC (mm ²)		BS EN Number	Type No.	Rating (A)	Breaking capacity (kA)			Ring final circuits only (measured end to end)			Figure check (✓)	All circuits to be completed using R1 R2, or R2, not both R ₁ + R ₂ R ₂	Live / Live (MΩ)	Live / Earth (MΩ)	Polarity (✓)	Maximum measured Z _s (Ω)	at I _{Δn} ms	at 5 I _{Δn} ms	Test Button operation (✓)
														r ₁	r _n	r ₂									
1	Ring sockets kitchen	1 B	5	2.5	1	0.2	60898	B	32	6	30	1.1	.12	.12	.18	✓	.1	150	160	✓	.82	33.8	11.4	✓	
2	Shower	1 B	1	6	2.5	0.2	60898	B	32	6	30	1.1					.35	>299	>299	✓	.87	33.8	11.4	✓	
3	Ring sockets house	1 B	11	2.5	1	0.2	60898	B	32	6	30	1.1	.35	.36	.57	✓	.31	>200	>200	✓	.89	33.8	11.4	✓	
4	Unknown circuit																								
5	Lights extension	1 B	3	1	1	0.2	60898	B	6	6	30	5.82					.7	>299	>299	✓	1.1	33.8	11.4	✓	
6	Unknown circuit																								
7	Central Heating	1 B	1	2.5	1	0.2	60898	B	16	6	30	2.18					.55	>299	>299	✓	.95	33.2	15	✓	
8	Lights house	1 B	6	1	0.2	60898	B	6	6	6	30	5.82						175	130	✓		33.2	15	✓	
9	Spare																								
10	Spare																								

Details of circuits and/or installed equipment vulnerable to damage when testing

See attached sheets page(s) of

Wiring Types 1= PVC/PVC 2= Single Insulated in Conduit or Trunking 3= Mineral Insulated 4= SWA/XPLE 5= FP200 6= Other =

Tested by: Name (capital letters)

Position Inspector

Date(s) 20/03/2017

Signature

This form is based on the requirements
NAPIT Administration Centre, 4th Floor,

of BS 7671
Vale Business Park, Mansfield, Nottinghamshire NG19 8RL

NA/EIC/CF/001 (V3)



NAPIT *Electrical Installation Observation Sheet*

Requirements for Electrical Installations
BS 7671:2008 incorporating Amendment No.3, 2015
[IET Wiring Regulations 17th Edition]

NA/
EIC

Page _____ of _____

Observations

Referring to the attached schedule of inspection and test results, and subject to the limitations

No remedial work required

The following observations are made

Distribution board Ref No. _____

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

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 Immediate remedial work required for items

C2 Urgent remedial work required for items

C3 Improvement(s) recommended for items

FI Further investigation required without delay

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NA/EIC/CF/001 (V3)