Electrical Installation Condition Report

To comply with:

BS 7671: 2008 (Amendment 1: 2011)
Requirement for Electrical Installations
IET Wiring Regulations Eighteenth Edition

The Old Rectory

Flat 2 Vicarage Lane Bognor Regis West Sussex PO22 7EA

Electrical verification undertaken for: Sussex Masonic Housing

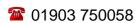
Date inspected: 17 May 2021

Overall assessment: Unsatisfactory

Electrical specification presented by:

D J M Building Services

55 Halewick Lane Sompting West Sussex BN15 0ND









Contents of the Report

- 1. EICR Report
- 3. EICR Inspection Schedule
- Observations General, Boards and Circuits
- Distribution Board Schedules
 Including Circuit Details and Test Results
- 17. Notes For Recipients



Unique Certificate No. DJMBS-000011-EICR

Contract Ref (if any):

ELECTRICAL INSTALLATION CONDITION REPORT

This safety certificate is an important and valuable

document which should be retained for future reference

DETAILS OF THE CLIENT

Mr John Ware

Sussex Masonic Housing LTD, 5 Hadrian Avenue, Southwick, West Sussex, BN42 4LJ

Client:

Address:

Issued in accordance with BS 7671 - Requirements for Electrical Installations

REASON FOR	R PRODUCING	THIS REPORT			
Electrical inspection	for tenancy agreemen	t			
Date(s) on which insp	pection and testing wa	s carried out 17 Ma	ay 2021		
DETAILS OF	THE INSTALL	ATION WHICH IS 1	THE SUBJECT OF T	HIS REP	ORT
Occupier:	Unoocupied		Description of premises:		Domestic
			Estimated age of wiring syste	em:	35 years
Address:	The Old Rectory, Fla Regis, West Sussex,	t 2, Vicarage Lane, Bognor PO22 7EA	Evidence of additions / altera	tions:	Yes
	,		If yes, estimate age:		4 years
Date of last inspection:	23 November 2015	not known			
Installation records available:	No	Records held by:			
EXTENT OF 1	THE INSTALL	ATION			
Extent of the installat	tion covered by this ce	rtificate:			
Visual and full electri	cal verification				
LIMITATIONS	OF THE INSP	PECTION AND TES	TING		
Agreed limitations inc	cluding the reasons (S	ee Regulation 634.2):			
None					
Agreed with:					
Operational limitation	ns including the reason	s			
None					
The inspection and to (Amendment 1: 2011		eport and accompanying school	edules have been carried out in	n accordance v	with BS 7671: 2008
underground, have n	ot been inspected unle	ithin trunking and conduits, ur ess specifically agreed betwee ing other electrical equipmen	nder floors, in roof spaces and en the client and inspector priot.	generally within to the inspect	n the fabric of the building or tion. An inspection should be
SUMMARY O	F THE CONDI	TION OF THE INST	ALLATION		
General condition of	the installation (in tern	ns of electrical safety):			
bedroom. Storage he	eaters in bed room and	l lounge have convection elen	corrosion evident. No bonding nent these have been changed onsists of 4 socket all spurred	to sockets all	on ring main including
Overall assessment	of the installation in ter	ms of its suitability for continu	ued use:	Unsatisfactory	<i></i>

An unsatisfactory assessment indicates that dangerous (Code C1) and/or potentially dangerous (Code C2) conditions have been identified

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.

It is recommended that the installation is further inspected & tested:

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 'Potentially dangerous' (Code C2) are acted upon as a matter or urgency.

RECOMMENDATIONS

before 17 May 2026

DECLARATION

Enrolment No.:

I/We being the person(s) responsible for the inspection & 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 & 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 extent and limitations stated in this report.

INSPECTED AND TESTED BY:

Name	David Mitchell	For & on behalf of:	D J M Building Services			
Position	Owner		55 Halewick Lane Sompting			
Date	17 May 2021	Address:	West Sussex			
Signature	Do will		BN15 0ND 01903 750058 dave62@me.com			
Enrolment No.:	Branch No.:	Accredited Body:	N/A			
REPORT AUTHOR	RISED FOR ISSUE BY:					
Name	David Mitchell	For & on behalf of:	D J M Building Services			
Position	Owner		55 Halewick Lane Somoting			
Date	24 May 2021	Address:	West Sussex			
Signature	Do uf		BN15 0ND 01903 750058 daye62@me.com			

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Branch No.:

System type and earthing arrangement	ents TN-S	TN-C-S	S TT		TN-C	IT						
Number and Type of Live Conductor	s A.C./D.0	C. A.C.	No. of phases		1-Phase (3-wire)							
Nature of Supply Parameters												
Nominal voltage(s), U ₀ 230V	Nominal frequency	f 50Hz	Number of supplies	1		equence onfirmed:	N/A					
U N/A	External earth fault loc impedance, 2	p _e 0.23Ω	Prospective fault current, I _{pf}	1kA		polarity onfirmed:	✓					
Primary Supply Overcurrent Protective Device(s)	BS 88-2 System E (Bo	Ited)	Rated current	60A	Short-circuit	capacity	16.5kA					
Other sources of supply:												

Accredited Body:

N/A

PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing		Supplier's facility		Maximum Demand (Load	d):	55 A					
Method of Fault Protection		ADS									
Main Protective Conductors											
Earthing Conductor		Conductor material	Copper	Conductor csa	10mm²	Continuity check	✓				
Main protective bonding co	onductors	Conductor material	N/A	Conductor csa	N/A	Continuity check	N				
Bonding of extraneous-conparts	nductive	Water installation pipes:	N	Gas installation pipes:	N/A	Oil service:	N/A				
		Structural steel:	N/A	Lightning protection:	N/A	Other incoming services	N/A				
Main Switch / Switch	h-Fuse	/ Circuit-breaker / R	CD								
Location Ir	nside front	door.		BS(EN)	BS 5419 -	Main Switch N/A					
		No. of poles	2	Rated voltage	415V	Rated current	100A				
		Fuse rating or setting		Conductors material	Copper	Conductors csa	2 x 10mm²				

Front End Residual Current Device details (if applicable):

Operating current I _{An}	Operating time @ I	Type 'S' RCD (time delayed)

EICR Inspection Schedule

If the schedule item applies to a particular board or circuit, this is shown in the 'Location' column. Further detail can be found in the 'Observations' section.

Debtributors (DNO) Supply intake equipment (VISUAL INSPECTION ONLY)	Item No	Description	Outcome	Location
Condition of service head Condition of service head Condition of metering equipment Condition of solator (where present) Distributor's (DNO) Supply Intake equipment - general observation Condition of solator (where present) Presence of adequate arrangements for other sources such as micro-generators Presence of adequate arrangements for other sources such as micro-generators Condition of service in the sources such as micro-generators Presence of adequate arrangements for other sources such as micro-generators Presence of adequate arrangements for other sources such as micro-generators Condition of earthing arrangement Presence and condition of earth electrode connection where applicable (542.12.2) Presence and condition of earth electrode connection where applicable (542.12.3) Provision of earthing conductor size (542.3, 543.1.1) Confirmation of earthing conductor size (542.3, 543.1.1) Confirmation of earthing conductor size (542.3, 543.1.1) Confirmation of earthing conductor size (542.3, 543.1.1) Condition and accessibility of main protective bonding conductor connections (543.3.2) Condition and accessibility of main protective bonding conductor connections (543.3.2) Condition and accessibility of main protective bonding connections (543.3.2) Accessibility and condition of other protective bonding connections (543.3.2) Condition and accessibility of main protective bonding connections (543.3.2) Accessibility and condition of other protective bonding connections (543.3.2) Accessibility and condition of other protective bonding connections (543.3.2) Accessibility and condition of other protective bonding connections (543.3.2) Accessibility and condition of other protective bonding connections (543.3.2) Accessibility and condition of other protective bonding connections (543.3.2) Accessibility and condition of control to covered by any BS7671 ten in Secti	1.0 I	Distributor's (DNO) Supply intake equipment (VISUAL INSPECTION ONLY)		
Condition of meter tails - distributor's consumer C3 - Improvement Installation recommended of the C3 - Improvement Procommended of	1.1	Condition of service cable	✓	
1.4 Condition of meter tails - distributor or consumer 1.5 Condition of metering equipment 1.6 Condition of sizelator (where present) 1.7 Condition of sizelator (where present) 1.8 N/A 1. Distributor's (DNO) Supply intake equipment - general observation 2. Presence of adequate arrangements for other sources such as micro-generators 2. Presence of adequate arrangements for other sources such as micro-generators 2. Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2) 3.0 Fersence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2) 3.1 Presence and condition of distributor's earthing arrangement (542.1.2.3) 3.2 Presence and condition of earth electrode connection where applicable (542.1.2.3) 3.3 Provision of earthing conductor size (542.3:543.1.1) 3.4 Confirmation of earthing conductor size (542.3:543.1.1) 3.5 Accessibility and condition of earthing conductor sizes (542.3:543.1.1) 3.6 Confirmation of main protective bonding conductor connections (543.3.2) 3.7 Condition and accessibility of main protective bonding conductor connections (543.3.2) 3.8 Accessibility and condition of other protective bonding conductor connections (543.3.2) 3.9 Earthing & bonding arrangements - not covered by any BS7671 laten in Section 3 3.0 Consumer units(?) (Statibution board(s) 4.1 Si2.1) 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 IP rating etc (416.2) 4.5 Enclosure not damaged/deteriorated so as to impair safety (661.2) 4.6 Presence of main linked switch (as required by 462.1.2011) 4.7 Operation final switch (functional check) (633.10) 4.8 Manual operation of circuit-breakers and RCDs to prove disconnection (643.10) 4.9 Correct identification of circuit-breakers and RCDs to prove disconnection (643.10) 4.1 Presence of non-standard (mixed) cable colour warning notice at or near consumer unit/distribution board (514.1.2) 4.1 Congestion of main switch (functional check) (633.10) 4.2 Pre	1.2	Condition of service head	✓	
Condition of metal tasks distribution for consumer Condition of metal tasks distribution for consumer Condition of isolator (where present)	1.3	Condition of distributor's earthing arrangement	✓	
1. Distributor's (DNO) Supply intake equipment - general observation 2. Presence of adequate arrangements for other sources such as micro-generators 2. Presence of adequate arrangements for other sources such as micro-generators 3.1 Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2) 3.2 Presence and condition of earthing conductor 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 (543.3.2) 3.6 Confirmation of earthing conductor of a MET (543.3.2) 3.7 Accessibility and condition of earthing conductor size (544.1) 3.8 Accessibility and condition of earthing conductor sizes (544.1) 3.9 Accessibility and condition of other protective bonding conductor connections (543.3.2; 542.1.2.3) 3.0 Accessibility and condition of other protective bonding conductor connections (543.3.2; 542.1.2.3) 3.0 Accessibility and condition of other protective bonding conductor connections (543.3.2; 542.1.2.3) 3.0 Accessibility and condition of other protective bonding conductor connections (543.3.2; 542.1.2.3) 3.0 Accessibility and condition of other protective bonding conductor connections (543.3.1; 543.3.2) 3.0 Accessibility and condition of other protective bonding conductor connections (543.3.1; 543.3.2) 3.0 Accessibility and condition of other protective bonding conductor connections (543.3.1; 543.3.2) 3.0 Accessibility and condition of other protective bonding connections (543.1.1; 543.3.2) 3.0 Accessibility and condition of other protective bonding connections (543.1.1; 543.3.2) 3.0 Accessibility and condition of other protective bonding connections (543.1.1; 543.3.2) 3.1 Accessibility and condition of other protective bonding connections (543.1.1; 543.3.2) 3.2 Accessibility and condition of other protective bonding connections (543.1.1; 543.3.2) 3.3 Accessibility of working space/space/spacessibility to consumer unit/di	1.4	Condition of meter tails - distributor or consumer		Installation
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3.6 Confirmation of main protective bonding conductor at WE I (64.3.3.2) 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; C2 - Potentially dangerous angerous installation dangerous angerous installation dangerous angerous dangerous installation dangerous angerous dangerous angerous installation dangerous angerous dangerous installation dangerous angerous dangerous dangerous angerous dangerous dangerous dangerous dangerous dangerous dangerous dangerous described in the dangerous dan	3.4	Confirmation of earthing conductor size (542.3; 543.1.1)		Installation
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3.8 Accessibility and condition of other protective bonding connections (543.3.1; 543.3.2) 3. Earthing & bonding arrangements - not covered by any BS7671 item in Section 3 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 witch (functional check) (643.10) 4.8 Manual operation of circuit betails 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 (514.15) 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) 4.16 Compatibility of protective devices, bases and other components; correct type and rating (No signs of unacceptable thermal damage, arcing or overheating) (411.3.2; 411.6; Sections 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 (514.15) 4.18 RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2) 4.10 RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2) 4.11 Protection against mechanical damage where cables enter consumer unit/distribution board (514.15) 4.12 Protection against mechanical damage where cables enter consumer unit/distribution board (512.5.1) 4.13 Protection against mechanical damage where cables enter consumer unit/distribution board (512.7.5.2) 4.12 Potentially	3.6	Confirmation of main protective bonding conductor sizes (544.1)		Installation
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RCD(s) provided for additional protection/requirements - includes RCBOs (411.3.3; C2 - Potentially	4.18			Installation
	4.19	RCD(s) provided for additional protection/requirements - includes RCBOs (411.3.3; 415.1)	- J	Installation

Item No	Description	Outcome	Location
4.20	Confirmation of indication that SPD is functional (651.4)	N/A	
4.21	Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)	C3 - Improvement recommended	Installation
4.22	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	N/A	
4.23	Adequate arrangements where a generating set operates in parallel with the public supply (551.7)	N/A	
4.	Consumer unit(s) / Distribution board(s) - not covered by any BS7671 item in Section 4	N/A	
5.0 Final	circuits		
5.1	Identification of conductors (514.3.1)	C3 - Improvement recommended	Installation
5.2	Cables correctly supported throughout their run (521.10.202; 522.8.5)	C2 - Potentially dangerous	Installation
5.3	Condition of insulation of live parts (416.1)	C3 - Improvement recommended	Installation
5.4	Non-sheathed cables protected by enclosure in conduit, ductling or trunking (to include the integrity of conduits and trunking systems, both metal and plastic) (521.10.1)	C2 - Potentially dangerous	Installation
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)	C3 - Improvement recommended	Installation
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 (411.3.1; Section 543)	C2 - Potentially dangerous	Installation
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)	C2 - Potentially dangerous	Installation
5.10	Concealed cables installed in prescribed zones (refer to: Extent and Limitations) (522.6.202)	LIM - Limitation	Installation
5.11	Cables concealed under floor, above ceilings, or in walls/partitions, adequately protected protected against mechanical damage (refer to: Extent and Limitations) (522.6.204)	LIM - Limitation	Installation
5.12.1	Provision of additional requirements for protection by RCD not exceeding 30 mA for all socket-outlets of rating 32 A or less, unless an exception is permitted (411.3.3)	C2 - Potentially dangerous	Installation
5.12.2	Provision of additional requirements for protection by RCD not exceeding 30 mA for the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)		
5.12.3	Provision of additional requirements for protection by RCD not exceeding 30 mA for cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)	C2 - Potentially dangerous	Installation
5.12.4	Provision of additional requirements for protection by RCD not exceeding 30 mA for cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)	N/A	
5.12.5	Provision of additional requirements for protection by RCD not exceeding 30 mA for final 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)	C2 - Potentially dangerous	Installation
5.14	Band II cables segregated/separated from Band I cables (528.1)	N/A	
5.15	Cables segregated/separated from communications cabling (528.2)	N/A	
5.16	Cables segregated/separated from non-electrical services (528.3)	✓	
5.17.1	Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); Connections soundly made and under no undue strain (526.6)	✓	
5.17.2	Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); No basic insulation of a conductor visible outside enclosure (526.8)	C2 - Potentially dangerous	Installation
5.17.3	Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); Connection of live conductors adequately enclosed (526.5)	C3 - Improvement recommended	Installation
5.17.4	Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)	C2 - Potentially dangerous	Installation
5.18	Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))	C2 - Potentially dangerous	Installation
5.19	Suitability of accessories for external influences (512.2)	√	
5.20	Adequacy of working space/accessibility to equipment (132.12; 513.1)	C3 - Improvement recommended	Installation
5.21	Single-pole switching or protective devices in line conductors only (132.14.1, 530.3.3)	✓	
5.22	Provision of relevant certification confirming that the electrical installation, or alteration, has been inspected and verified in accordance with Chapter 64	C3 - Improvement recommended	Installation
5.	Final circuits - not covered by any BS7671 item in Section 5	N/A	
6.0 Locat	on(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)	C2 - Potentially dangerous	Installation
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	N/A	
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)	✓	

Item No	Description	Outcome	Location
6.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3)	✓	
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)	✓	
6.	Location(s) containing a bath or shower - not covered by any BS7671 item in Section 6	N/A	
7.0	Other part 7 special installations or locations		
7.1	List all other special installations or locations present, if any (record separately the results of particular installations applied)	N/A	
0.8	Not covered by any BS7671 Inspection Schedule section		
8.	Not covered by any BS7671 Inspection Schedule section	N/A	

Observations

C2 - Potentially dangerous

Absence of 30mA RCD protection of cables buried in walls or partitions

Schedule Item contravened:

5.12.3 - Provision of additional requirements for protection by RCD not exceeding 30 mA for cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203)

C2 - Potentially dangerous

Absence of 30mA RCD protection of circuits where it possible to use external portable or mobile equipment

Schedule Item contravened:

4.18 - RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2)

C2 - Potentially dangerous

Absence of adequate IP protection at electrical switchgear

Schedule Item contravened:

4.3 - Condition of enclosure(s) in terms of IP rating etc (416.2)

C2 - Potentially dangerous

Absence of consumer main earthing terminal [CMET]

Schedule Item contravened:

3.5 - Accessibility and condition of earthing conductor at MET (543.3.2)

C2 - Potentially dangerous

Absence of RCD protection to circuits within a room containing a bath or shower

Schedule Item contravened:

4.19 - RCD(s) provided for additional protection/requirements - includes RCBOs (411.3.3; 415.1)

C2 - Potentially dangerous

Absence of RCD protection to circuits within a room containing a bath or shower. Shower. Lights in bathroom no earth.

Schedule Item contravened:

6.1 - Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)

C2 - Potentially dangerous

Absence of the adequate provision of fire barriers, or sealing of a system following penetration of the building construction.

Schedule Item contravened:

5.13 - Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)

C2 - Potentially dangerous

Basic insulation not in side Junction box's.

Schedule Item contravened:

5.17.2 - Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); No basic insulation of a conductor visible outside enclosure (526.8)

C2 - Potentially dangerous

Cables not adequately supported throughout their length

Schedule Item contravened:

5.2 - Cables correctly supported throughout their run (521.10.202; 522.8.5)

C2 - Potentially dangerous

Electrical switchgear installed on combustible materials [not adequately fire-rated]

Schedule Item contravened:

4.4 - Condition of enclosure(s) in terms of fire rating etc (421.1.201; 526.5)

C2 - Potentially dangerous

Inadequate mechanical protection of cables entering distribution board or enclosure

Schedule Item contravened:

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)

C2 - Potentially dangerous

Inadequate provision of 13A socket outlets [reliance on extension leads]

Schedule Item contravened:

5.9 - Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)

C2 - Potentially dangerous

Main earth terminal inaccessible

Schedule Item contravened:

3.7 - Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)

C2 - Potentially dangerous

Main equipotential bonding conductor continuity check fault

Schedule Item contravened:

5.8 - Presence and adequacy of circuit protective conductors (411.3.1; Section 543)

C2 - Potentially dangerous

Missing fixings to electrical switchgear or enclosure covers

Schedule Item contravened:

5.17.4 - Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); Adequately connected at point of entry to enclosure (glands, bushes etc.) (522.8.5)

C2 - Potentially dangerous

Non-sheathed cables exposed. Cables to be fully enclosed in fireproof enclosure

Schedule Item contravened:

5.4 - Non-sheathed cables protected by enclosure in conduit, ductling or trunking (to include the integrity of conduits and trunking systems, both metal and plastic) (521.10.1)

C2 - Potentially dangerous

Poor condition of electrical enclosures or accessories

Schedule Item contravened:

5.18 - Condition of accessories including socket-outlets, switches and joint boxes (651.2(v))

C2 - Potentially dangerous

Poor positioning of distribution board [inaccessible to inspection]

Schedule Item contravened:

4.1 - Adequacy of working space/accessibility to consumer unit/distribution board (132.12; 513.1)

C2 - Potentially dangerous

Sockets not protected by RCD can be used outside.

Schedule Item contravened:

5.12.1 - Provision of additional requirements for protection by RCD not exceeding 30 mA for all socket-outlets of rating 32 A or less, unless an exception is permitted (411.3.3)

C2 - Potentially dangerous

Visible signs of overheating at electrical circuits [and/or electrical switchgear]

Schedule Item contravened:

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; Sections 432. 433)

C2 - Potentially dangerous

Water service bonding conductor continuity check fault

Schedule Item contravened:

3.6 - Confirmation of main protective bonding conductor sizes (544.1)

C3 - Improvement recommended

Schedule Item contravened:

3.4 - Confirmation of earthing conductor size (542.3; 543.1.1)

C3 - Improvement recommended

Schedule Item contravened:

4.10 - Presence of RCD six-monthly test notice at or near consumer unit/distribution board (514.12.2)

C3 - Improvement recommended

Absence of correct identification of conductors at consumer main earthing terminal [CMET]

Schedule Item contravened:

3.3 - Provision of earthing/bonding labels at all appropriate locations (514.13.1)

C3 - Improvement recommended

Absence of Electrical Installation Certificate for recent works

Schedule Item contravened:

5.22 - Provision of relevant certification confirming that the electrical installation, or alteration, has been inspected and verified in accordance with Chapter 64

C3 - Improvement recommended

Absence of identification of conductors within electrical switchgear

Schedule Item contravened:

5.1 - Identification of conductors (514.3.1)

C3 - Improvement recommended

Absence of identification to two types of wiring to BS 7671

Schedule Item contravened:

4.11 - Presence of non-standard (mixed) cable colour warning notice at or near consumer unit/distribution board (514.14)

C3 - Improvement recommended

Cables installed do not comply with relevant British Standard [such as VIR]

Schedule Item contravened:

5.5 - Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)

C3 - Improvement recommended

Damaged insulation at electrical accessory

Schedule Item contravened:

5.3 - Condition of insulation of live parts (416.1)

C3 - Improvement recommended

Electrical switchgear inaccessible

Schedule Item contravened:

5.20 - Adequacy of working space/accessibility to equipment (132.12; 513.1)

C3 - Improvement recommended

Poor termination of cables

Schedule Item contravened:

4.21 - Confirmation that ALL conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure (526.1)

C3 - Improvement recommended

Presence of un-terminated cables within distribution board

Schedule Item contravened:

5.17.3 - Termination of cables at enclosures - indicate extent of sampling in Extent & Limitations of the report (Section 526); Connection of live conductors adequately enclosed (526.5)

C3 - Improvement recommended

VIR tails in intake room. Visible inspection ok.

Schedule Item contravened:

1.4 - Condition of meter tails - distributor or consumer

C3 - Improvement recommended

VIR tails need update. Feed on 10 mm MICC.

Schedule Item contravened:

1. - Distributor's (DNO) Supply intake equipment - general observation

Distribution Schedule: DB 001

DB Location:		Supply Derived From:	Main Supply	Primary Overcurrent Device:	BS 88-2 System E (Bolted)
DB Type/No:	Proteus 1Ø Distribution Board (Si nglePole & Neutral)	Voltage:	230V	OPD Current Rating	60A
Designation:	Lighting & Power	No. of phases:	1	OPD Short circuit capacity	16.5kA
Tested by:	David Mitchell	Signature	Do ul	Date	24 May 2021

Circuit		Type of wiring	Φ_	No. of		Circuit 5		Protective device				p d		RCD				
	Description	wiring	Reference Method	points	Condi Live	CPC	Max disconnection time perm	BS (EN)	Туре	Rating	Breakin g capacit y	Max Permitted Earth Loop	BS (EN)	Туре	Rating	I _{Δn}	No. of poles	
1	Cooker	PVC T&E	В	1	6.0mm²	2.5mm²	0.4s	60898	В	32A	6kA	1.37Ω						
2	Shower	PVC T&E	В	1	6.0mm ²	2.5mm²	0.4s	60898	В	32A	6kA	1.37Ω						
3	Ring main	PVC T&E	В	12	2.5mm ²	1.0mm²	0.4s	60898	В	32A	6kA	1.37Ω						
4	Lights	PVC T&E	В	5	1.0mm²	1.0mm²	0.4s	61009	AC	6A	6kA	7.2Ω	61009	AC	6A	30mA	2	

Test Results: DB 001

Phase sequence confirm	N/A	Z _s at DB:	0.23Ω		Vulnerable circuits and/or installed	Lights .Neon on shower switch.						
Supply polarity confirmed:		✓	Ipf at DB.	1kA		equipment:	<u> </u>					
Details of Test Instruments Used												
Continuity:	T.I.S MFT 18101179		Insulation resistance:			S MFT-PRO 01179	Earth fault loop impedance:	T.I.S MFT-PRO 18101179				
RCD:	T.I.S MFT 18101179		Earth electrode resistance:									

Circuit	Circuit	Ring Final Circuit Continuity		rcuit	Continuity ဦ		эсе	Insula	ation Resis	tance				RCD Tes	t Results		
	Description	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	R ₁ + R ₂	R_2	Insulation Resistance Test Voltage	Live- Live	Live- Neutral	Live- Earth	Polarity	Max Measured Earth Loop	Test Button	No trip at ½I _{Δn}	Op time at I _{Δn}	Op time at 5I _{Δn}	Manual AFDD test button operation
1	Cooker						500V	N/A	>999MΩ	>999MΩ	✓	0.75Ω					N/A
2	Shower						500V	N/A	>999MΩ	>999MΩ	✓	0.38Ω					N/A
3	Ring main	0.37Ω	0.35Ω	0.75Ω	0.42Ω		500V	N/A	>999MΩ	>999MΩ	✓	0.60Ω					N/A
4	Lights						500V	N/A	>999MΩ	LIM	✓	No Earth	Pass	No trip	0.25ms	28ms	N/A

Distribution Schedule: DB 002

DB Location:		Supply Derived From:	Main Supply	Primary Overcurrent Device:	BS 88-2 System E (Bolted)
DB Type/No:	MEM 1Ø Distribution Board (Si nglePole & Neutral)	Voltage:	230V	OPD Current Rating	60A
Designation:	Heating	No. of phases:	1	OPD Short circuit capacity	16.5kA
Tested by:	David Mitchell	Signature	Do ul	Date	24 May 2021

Circuit	Circuit	Type of wiring	φ	No. of	Circ		ion		Protectiv	e device		p d			RCD		
	Description	wiring	por	points	Condi	uctors	ect	BS	Type	Rating	Breakin	Local tree	BS	Type	Rating	$I_{\Delta n}$	No. of
			Reference Method		Live	CPC	Max disconnection time perm	(EN)	71 -	J	g capacit y	Max Permitted Earth Loop	(EN)	31.	3	ΔΠ	poles
1	Bedroom storage heater.	PVC T&E	В	1	2.5mm²	1.0mm²		1361		20A	16.5kA	1.62Ω					
2	Lounge storage heater.	PVC T&E	В	1	2.5mm²	1.0mm²	0.4s	1361		20A	16.5kA	1.62Ω					
3	Lounge storage heater.	PVC T&E	В	1	2.5mm²	1.0mm²	0.4s	1361		20A	16.5kA	1.62Ω					

Test Results: DB 002

Phase sequence confirmed: N/. Supply polarity confirmed: ✓		N/A ✓	Z _s at DB: I _{pf} at DB:	0.24Ω 0.980kA		Vulnerable circuits and/or installed equipment:	Neon on switches.			
Details of Test Instrumer										
Continuity:	T.I.S MFT 18101179		Insulation resist			S MFT-PRO 01179	Earth fault loop impedance:	T.I.S MFT-PRO 18101179		
RCD:	T.I.S MFT 18101179		Earth electrode resistance:							

Circuit	Circuit	Ring	Ring Final Circuit		Continuity		Insulation Resistance					RCD Test Results					
	Description	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	R ₁ + R ₂	R_2	Insulation Resistance Test Voltage	Live- Live	Live- Neutral	Live- Earth	Polarity	Max Measured Earth Loop	Test Button	No trip at ½I _{Δn}	Op time at I _{Δn}	Op time at 5I _{Δn}	Manual AFDD test button operation
1	Bedroom storage heater.				O.25		500V	N/A	>999MΩ	>999MΩ	✓	0.40Ω					N/A
2	Lounge storage heater.				0.17Ω		500V	N/A	>999MΩ	>999MΩ	✓	0.32Ω					N/A
3	Lounge storage heater.				0.34Ω		500V	N/A	>999MΩ	>999MΩ	✓	0.54Ω					N/A

Distribution Schedule: DB 003

DB Location:	Inside front door.	Supply Derived From:	Main Supply	Primary Overcurrent Device:	BS 88-2 System E (Bolted)
DB Type/No:	MEM 1Ø Distribution Board (Si nglePole & Neutral)	Voltage:	230V	OPD Current Rating	60A
Designation:	Heating	No. of phases:	1	OPD Short circuit capacity	16.5kA
Tested by:	David Mitchell	Signature	Do ul.	Date	24 May 2021

Circuit		Type of	<u>ө</u> _	No. of		cuit			Protective device			p dc	RCD				
	Description	wiring	Reference Method	points	Live	uctors CPC	Max disconnect time perr	BS (EN)	Туре	Rating	Breakin g capacit v	Max Permitte Earth Loc	BS (EN)	Type	Rating	l _{Δn}	No. of poles
1	Immersion	PVC T&E	В	1	2.5mm²	1.0mm²		1361		15A	16.5kA	2.62Ω					

Test Results: DB 003

Phase sequence confirmed: N/A Supply polarity confirmed: ✓		N/A ✓	Z _s at DB: I _{pf} at DB:	0.22Ω 1kA		Vulnerable circuits and/or installed equipment:		
Details of Test Instrumen	nts Used							
Continuity:	T.I.S MFT 18101179		Insulation resist	tance:		S MFT-PRO 01179	Earth fault loop impedance:	T.I.S MFT-PRO 18101179
RCD:	T.I.S MFT 18101179		Earth electrode resistance:					

Circuit	Circuit		Ring Final Circuit		Continuity ဦ		acc	Insulation Resistance					RCD Test Results				
	Description	r ₁ (line)	Continuity (neutral)	r ₂ (cpc)	R ₁ + R ₂	R_2	Insulation Resistan Test Voltage	Live- Live	Live- Neutral	Live- Earth	Polarity	Max Measured Earth Loop	Test Button	No trip at ½I _{Δn}	Op time at I _{Δn}	Op time at 5I _{Δn}	Manual AFDD test button operation
1	Immersion				0.23Ω		500V	N/A	>999MΩ	>999MΩ	✓	0.45Ω					N/A

Condition Report

Guidance for Recipients [to be appended to the Certificate)

This Report is an important and valuable document which should be retained for future reference.

- 1. 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 'Summary of the Condition of the Installation'). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger (see Observations section).
- 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 six-monthly. For safety reasons it is important that this instruction is followed.
- 5. The Extent and Limitations of Inspection and Testing section 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 (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.
- 6. 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.
- 7. For items classified in the Observations section as C I (' 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.
- 8. For items classified in the Observations section 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.
- 9. Where it has been stated in the Observations section that an observation requires further investigation (code FI) the inspection has revealed an apparent deficiency which may result in a code C I 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 Recommendations section).
- 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 the Recommendations section of the Report under 'Recommendations' and on a label at or near to the consumer unit/distribution board.

Glossary of Terms

Abbreviations

ATLP	Access to Live Parts	LSHF/PVCS	Low Smoke Halogen Free PVC Single Cables in Conduit/ Trunking Containment
ВН	Bulkhead Light Fitting	LSHF/SWA	Low Smoke Halogen Free Steel Wired Armoured Cable
CMET	Consumer Main Earth Terminal	LSHF/T&E LSHF/XLPE/S	Low Smoke Halogen Free T&E XLPE Low Smoke Halogen Free Steel Wired Armoured
CPC	Circuit Protective Conductor	WA	Cable
CSP	Heat Resistant Rubber Flexible Cable	MCB	Miniature Circuit Breaker
DB	Distribution Board	MCCB	Moulded Case Circuit Breaker
DNO	Distribution Network Operator	MEB	Main Equipotential Bonding
EES	Emergency Exit Signs	MET	Main Earth Terminal
EPR	Heat Resistant Rubber Flexible Cable	MICC	Mineral Insulated Copper Cable
ELV	Extra Low Voltage	NT	Not Tested (Dysfunctional)
EML	Emergency Lighting	OCP	Overcurrent Protection
EN 60898	Miniature Circuit Breaker	PSU	Power Supply Unit (via 13A FCU)
EN 60947-2	Moulded Case Circuit Breaker	PVC T&E	PVC/PVC twin and earth cable
EN 60947-3	Switch, disconnector, or switch-fuse	PVC/SWA	PVC Steel Wired Armoured Cable
EN 61008	Residual Circuit Breaker (without overcurrent protection)	PVCS	PVC Single Cables in Conduit/ Trunking Containment
EN 61009	Residual Circuit Breaker (with overcurrent protection)	Radial	Radial Circuit
FCU	13A Fused Connection Unit	RC	Refer to Comments
FIR	Further Investigation Required	RCD	Residual Circuit Device
FP	Fire Rated Protected Cable	RFC	Ring Final Circuit
IP	Ingress Protection	S/O 13A	Socket Outlet
LHS/RHS	Left Hand Side/Right Hand Side	VIR	Vulcanised Indian Rubber
LSF	Low Smoke & Fume Cables	XLPE/SWA	XLPE Steel Wired Armoured Cable

Overcurrent Protective Device Abbreviations

BS (EN)	Type No	Device
60898	В	BS EN 60898 MCB Type B - Miniature Circuit Breaker (Type B)
60898	С	BS EN 60898 MCB Type C - Miniature Circuit Breaker (Type C)
60898	D	BS EN 60898 MCB Type D - Miniature Circuit Breaker (Type D)
61009	В	BS EN 61009 RCBO Type B - Residual Current Device (Type B)
61009	С	BS EN 61009 RCBO Type C - Residual Current Device (Type C)
61009	D	BS EN 61009 RCBO Type D - Residual Current Device (Type D)
3871	1	BS 3871 MCB Type 1 - Miniature Circuit Breaker (Type 1)
3871	2	BS 3871 MCB Type 2 - Miniature Circuit Breaker (Type 2)
3871	3	BS 3871 MCB Type 3 - Miniature Circuit Breaker (Type 3)
3871	4	BS 3871 MCB Type 4 - Miniature Circuit Breaker (Type 4)
61008		BS EN 61008 RCD - Residual Current Device
4293		BS EN 4293 RCD - Residual Current Device
88-2	E	BS 88-2 Fuse System E (Bolted) - High Rupture Capacity Cartridge Fuse
88-2	G	BS 88-2 Fuse System G (Clip-In) - High Rupture Capacity Cartridge Fuse
88-2.2	gG	BS 88-2.2 Fuse (gG) - High Rupture Capacity Cartridge Fuse
88-3	С	BS 88-3 Fuse System C - High Rupture Capacity Cartridge Fuse
88-6	gG	BS 88-6 Fuse (gG) - High Rupture Capacity Cartridge Fuse
1361	2	BS 1361 Fuse Type 2
1362		BS 1362 Fuse (Domestic)
3036		BS 3036 Fuse Rewirable (Semi-Enclosed)
60947-2	MCCB	BS EN 60947-2 MCCB - Moulded Case Circuit Breaker
60947-3		BS EN 60947-3 - Isolator
60947-2	ACB	BS EN 60947-2 ACB - Air Circuit Breaker
N/V		Non-Verifiable
LIM		Limitation (Refer to: Limitations of the Inspection)

British Standard (BS)

British Standard BS 7671: 2018 Amendment 1: 2020 – also known as the IET (Institution of Engineering & Technology) Wiring Regulations (18th Edition) - Requirements for Electrical Installations is the standard against which all electrical installations are assessed.

Certificate

Any electrician installing a new electrical installation (including a single circuit), altering, extending or adapting an existing circuit should issue to their client, or the homeowner, an Electrical Installation Certificate (EIC), or a Minor Electrical Installation Works Certificate (MEW) to confirm the work complies with the requirements of BS 7671 Appendix 6

Circuit

An assembly of electrical equipment (socket outlets, lighting points and switches) supplied from the same origin and protected against overcurrent by the same protective device(s).

Class I Equipment

Equipment in which protection against electric shock does not rely on basic insulation only, but which includes means for the connection of exposed-conductive-parts to a protective conductor in the fixed wiring of the installation. Class I equipment has exposed metallic parts, e.g. the metallic enclosure of washing machine.

Class II Equipment

Class II equipment, such as music systems, television and video players, in which protection against electric shock does not rely on basic insulation only, but in which additional safety precautions such as supplementary insulation are provided, there being no provision for the connection of exposed metalwork of the equipment to a protective conductor, and no reliance upon precautions to be taken in the fixed wiring of the installation.

Class III Equipment

Equipment, for example for medical use, in which protection against electric shock relies on supply at SELV (Safety extra low voltage) and in which voltages higher than those of SELV are not generated. Class III equipment must be supplied from a safety isolating transformer.

Consumer Unit (also known as a fuse board, or distribution board)

A type of distribution board (principally for domestic premises) comprising a co-ordinated assembly for the control and distribution of electrical energy, incorporating manual means of double-pole isolation on the incoming circuit(s) and an assembly of one or more fuses, circuit-breakers, residual current operated devices or signalling and other devices purposely manufactured for such use.

Distribution Board

An assembly containing switching or protective devices (e.g. fuses, circuit-breakers, residual current operated devices) associated with one or more outgoing circuits fed from one or more incoming circuits, together with terminals for the neutral and protective circuit conductors. It may also include signalling and other control devices. Means of isolation may be included in the board or may be provided separately.

Electrical Installation

Any assembly of electrical equipment supplied by a common source to fulfil a specific purpose.

EICR – Electrical Installation Condition Report

An electrical survey, known as an Electrical Installation Condition Report (EICR) will reveal if electrical circuits are overloaded, find potential hazards in the installation, identify defective DIY work, highlight any lack of earthing or bonding and carry out tests on the fixed wiring of the installation. The report will establish the overall condition of all the electrics and state whether it is satisfactory for continued use and should detail any work that might need to be done.

Electrical Safety Regulations

Registered electricians have already helped to improve the standard of electrical work in the UK. A new electrical safety law, often referred to as Part P (of the Building Regulations), has further enhanced the protection of homeowners and reduced the risk of electric shock when using electricity. The law, which applies to England and Wales aims to improve electrical safety in the home and prevent the number of accidents, which are caused by faulty electrical work. The law requires an electrician registered with a government-approved scheme, such as the NICEIC/ECA/NAPIT/ELECSA/STROMA etc., to carry out most electrical work in the home. After completion of any work, your registered electrician will issue you with a Building Regulations Compliance Certificate to prove it meets the required standards of Part P. You can only carry out electrical work yourself if you can inspect and test that it is safe for use. To comply with the law, you must notify your local building control office before you begin any work and pay the appropriate fee for them to inspect the work.

Extension Leads

An extension cable, also known as a power extender, extension cord or an extension lead, is a length of flexible electrical power cable or flex with a plug on one end and one or more sockets on the other end - usually of the same type as the plug. However, use of extension leads should be avoided where possible, as there is a chance of overloading the circuit.

Miniature Circuit Breaker

A device capable of making, carrying and breaking normal load currents, and making and automatically breaking under predetermined conditions, abnormal currents such as short-circuit currents. It is usually required to operate infrequently, although some types are suitable for frequent operation.

Moulded Case Circuit Breaker

A device capable of making, carrying, and breaking normal load currents, and making and automatically breaking under predetermined conditions abnormal currents such as short-circuit currents. It is usually required to operate infrequently, although some types are suitable for frequent operation. It is meant for higher rated current and is commonly used in Industrial applications. It's usual range is 250A-800A.

Overcurrent

Electrical current (in amps) that exceeds the maximum limit of a circuit. May result in risk of fire or shock from insulation damaged from heat generated by overcurrent condition.

Part P

The specific section of the Building Regulations for England and Wales that relates to electrical installations in domestic properties. Part P provides safety regulations to protect householders and requires most domestic electrical work to be carried out by government-registered electricians, or to be inspected by Building Control officers.

PAT - Portable Appliance Testing

Inspection and testing of electrical equipment including portable appliances, moveable equipment, hand held appliances, stationary equipment, fixed equipment/appliances, IT equipment and extension leads.

PLI - Public Liability Insurance

Broad term for insurance which covers liability exposures for individuals and business owners. Homeowners should check that their electrician has public liability insurance, which covers them if someone is accidentally injured by them or their business operation. It will also cover them if they damage your property while on business. The cover should include any legal fees and expenses which result from any claim by you. Homeowners looking to employ trades people to undertake work on their homes should ensure the companies selected have suitable cover – minimum recommendation is £2 million.

Portable equipment

Electrical equipment which is less than 18 kg in mass and is intended to be moved while in operation or which can easily be moved from one place to another, such as a toaster, food mixer, vacuum cleaner, fan heater.

Prospective fault current

The value of overcurrent at a given point in a circuit resulting from a fault between live conductors, or a live conductor and earth.

RCD - Residual Current Device

Residual current device is a safety device that switches off the electricity automatically when it detects an earth fault, providing protection against electric shock (only when rated at 30mA or less).

Ring Final Circuit

A final circuit connected in the form of a ring and connected to a single point of supply.

Voltages:

SELV

Separated Extra-Low Voltage. An extra-low voltage system, which is electrically separated from Earth and from other systems in such a way that a single fault cannot give rise to the risk of electric shock.

Extra-Low Voltage

Normally not exceeding 50 V ac or 120 V ripple-free dc whether between conductors or to earth.

Low Voltage

Low Voltage (50V - 1000V)

mA

Milliamp or 1/1000 part of an amp (0.001 amp)