



Company Strength Luceco Brands

LUCECO

Environmental and energy Saving LED lighting







Audio Visual and Home Entertainment products designed to meet the needs of the discerning user



A market leading supplier of portable power equipment through DIY outlets, online and high street retailers



High Performance Products Affordable, reliable & practical lighting technology



www.luceco.co.uk



www.bgelectrical.co.uk



www.ross.co.uk



www.masterplug.com



www.kingfisherlighting.com

My background

- Electrical industry for many years
- Installing within residential, commercial, agricultural and industrial environments
- Marketing & Product management covering Motor Control Gear and Automated Systems
- Marketing & Product management covering Electrical Distribution Systems
- Designing and testing Three-Phase and Single-Phase assemblies
- Qualified to initial & periodic inspection and testing

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BS7671 18th Edition Amendment 2: Additions & Changes Important Dates

BS 7671:2018+A2:2022 Requirements for Electrical Installations

Date for release on:-

28th March 2022

These may be implemented immediately.

BS 7671:2018+A1:2020 remains current and will be withdrawn on

27th September 2022.

Note: Withdrawn publications no longer carry the status of a British Standard.... BSI take no responsibility for the content of a withdrawn publication.



BS 7671 AMD2: A consumer unit verified to BS EN 61439-3

When we consider the design requirements of the consumer unit for any new or existing installation, for use by ordinary persons, in domestic or similar locations, the basic requirements and outcomes are the same.

In General terms, "Protection persons and property from fire and electrocution".

Part 3 Assessment of general characteristics
Part 4 Protection for safety
Part 5 Selection and erection of equipment
Part 6 Inspection and testing
Part 7 Special installations or locations.
Part 8 Functional requirements.

Selecting correctly sized overcurrent protection device/s (OCPD) and Additional protection requirements of RCD's, AFDD's.





AMD2 consumer unit verified to BS EN 61439-3

And if installed correctly to the wiring regulations

Meets BS 7671 18th Edition Amendment 2 requirements

Question?

What regulation changes have an impact on the installation of the Consumer unit within residential properties.

Lets take a look



Chapter 44: Protection against voltage surges and electromagnetic disturbances

443.4 Re-written and now states the following

443.4.1 Transient overvoltages due to the effects of indirect lightning strokes

BG

Protection against transient overvoltages <u>shall</u> be provided where the consequence caused by the overvoltage could result in:

(i) serious injury to, or loss of, human life
(ii) failure of a safety service, as defined in *Part 2*(iii) significant financial or data loss.

For all other cases, protection against transient overvoltages <u>Shall</u> be provided *unless the owner of the installation declares it is not required due to any loss or damage being tolerable and they accept the risk of damage to equipment and any consequential loss.*

Part 2 Definitions: Safety service. An electrical system for electrical equipment provided to protect or warn persons in the event of a hazard, or essential to their evacuation from a location?

Smoke alarms, heat alarms, fire alarm systems...







AMD2 consumer unit verified to BS EN 61439-3

Where alarm circuits are connected to the mains supply it is Mandatory to protect against high transients with SPD type 2 device.

For all other cases you SHALL provide surge protection, or have long detailed chat explaining the reasons why SPD needs to be fitted, based on how transient voltages will over time damage electronic devices.

If we do not install Overvoltage transient surge protection – SPDs. We must include this within the installation certificates as a **Departure**

131.6.2 Persons and livestock shall be protected against injury, and property shall be protected against damage, as a consequence of overvoltages such as those originating from atmospheric events or from switching, in accordance with section 443





Chapter 4: 421.1.7 Arc fault detection devices (AFDD) conforming to BS EN 62606 shall be provided for single-phase AC final circuits supplying socket-outlets with a rated current not exceeding 32 A in:

- Higher Risk Residential Buildings (HRRB)
- Houses in Multiple Occupation (HMO)
- Purpose built student accommodation
- Care homes

Note 1: Higher Risk Residential Buildings are assumed to be residential buildings over 18 m in height or in excess of six storeys, whichever is met first. It is anticipated that in many areas higher-risk residential buildings will be defined in legislation which can be subject to change over time, as well as in risk management procedures adopted by fire and rescue services. Current legislation should be applied.

BG

For all other premises, the use of AFDDs conforming to BS EN 62606 is "recommended" for single-phase AC final circuits supplying socket-outlets not exceeding 32

AFDDs should be Placed at the origin of each circuit.

Busbar systems to BS EN 61439-6 & Power track systems to BS EN 61534 AFDD may be placed at other locations than at origin of circuit

AMD2 consumer unit verified to BS EN 61439-3

Generally Domestic premises are not considered a High risk Building.

The mandatory part is not applied directly to a house.

Recommended, ignored generally as being not really needed.

There is a new "Informative Annex" to help with guidance on the language used

Words such as Recommended inform us we <u>should</u> do what is advised.



BS7671 defines Recommendation: Expression in the content of a document conveying that among several possibilities one is recommended as particularly suitable, without mentioning or excluding others.

I am not aware of any alternatives that can provide the level of protection offered from an Arc Fault protection device.



BS7671 18th Edition Amendment 2: Additions & Changes

Guidance on the language used within BS 7671

To help all users of BS 7671, the following definitions apply specifically to the language used within this Standard:

Verbal forms used in BS 7671 (see also individual definitions in Part 2)										
Implication	Verbal form	Typical context								
Requirement	Shall	Normative element								
Recommendation	Should	Informative element								
Permission	May	Informative element								
Possibility and capability	Can	Informative element								
Possibility	Might	Informative element								
Description	ls	Informative element								
The content of this table is bas standards published by BSI Sta	ed on <i>Rules for the s</i> andards Ltd.	tructure and drafting of UK								

Ceco

ROSS

Kingfisher

DVV DW Windsor SYNC (V)



531.3.2 Unwanted tripping, new indent (ii)

Residual current protective devices shall be selected and erected such as to limit the risk of unwanted tripping. The following shall be considered:

(i) subdivision of circuits with individual associated RCDs. RCDs shall be selected and the circuits subdivided in such a way that any earth leakage current likely to occur during normal operation of the connected load will not cause unwanted tripping of the device. *See also Section 314*

(ii) the use of RCBOs for individual final circuits in residential premises. See also Section 314.

(iii) in order to avoid unwanted tripping by protective conductor currents and/or earth leakage currents, the accumulation of such currents downstream of the RCD shall be not more than 30 % of the rated residual operating current

NOTE 1: This will also allow a better selection of the type of RCDs according to the nature of the circuit or the load.

NOTE 2: RCDs may operate at any value of residual current in excess of 50 % of the rated residual current



531.3.2 Unwanted tripping, new indent (ii)

(ii) the use of RCBOs for individual final circuits in residential premises. See also Section 314, division of Circuit.

Consider the connected loads Modern washing machine, dishwasher, tumble dryers – 5mA each. Induction hobs – 6mA Fridge freezers, micro wave ovens, laptops, Ipad, Iphones-Androids, TVs, music centres, fixed wiring USB sockets. LEDs fitting Etc...

Dual split load consumer units cannot be organized effectively or efficiently to deal with our modern life style and use of modern technology.

We also have to consider future changes to our accessories as we look to the smart home. More electronics, more leakage, more RCD tripping on group circuits.





531.3.3 Types of RCD

- (i) RCD Type AC
- (ii) RCD Type A
- (iii) RCD Type F
- (iv) RCD Type B





RCD Type AC shall only be used to serve fixed equipment, where it is known that the load current contains no DC components.

NOTE 1:.Examples of fixed equipment with a load current containing no DC components can include but not be limited to electric heating appliances and/or simple filament lighting, neither containing electronic components .

Mandatory from September 27th 2022.



Part 6 Chapter 64 Initial verification

642.3. The inspection now includes earth electrodes where applicable, see (c) fault protection.

643: Has been redrafted.

643.3.1: The insulation resistance shall be measured between:

(i) live conductors, and

(ii) live conductors and the protective conductor connected to the earthing arrangement. During this measurement, line and neutral conductors may be connected together.

643.3.2 Still applies using Table 6 with minimum requirements of 1 (M Ω) at 500VDC

But with the array of electronics now installed as part of the fixed wiring. Must be performed on the initial cable install 1st fix, and prior to 2nd fix.

643.3.3 The requirements for testing insulation resistance where connected equipment is likely to influence the verification test or be damaged has been clarified and reference is made to using a 250 V DC applied to the Live conductors connected to the earthing arrangement with minimum requirements of **1** (M Ω) at 250VDC



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Part 6 Chapter 64 Initial verification

643.7 Protection by Automatic Disconnection of Supply (ADS) (TN & TT Systems)

643.7.1 The requirements for verification of RCDs effectiveness have been changed and Table 3A (Time/current performance criteria for (RCDs) in Appendix 3 has been deleted.

Note: Regardless of RCD Type, effectiveness is deemed to have been verified where an RCD disconnects within the time stated below with an alternating current test at rated residual operating current ($I\Delta n$)

- For general non-delay type, 300 ms maximum
- For delay 'S' type RCD, between 130 ms minimum and 500 ms maximum.

643.8 Additional Protection

Note: Regardless of RCD Type, effectiveness is deemed to have been verified where an RCD disconnects within the time stated below with an alternating current test at rated residual operating current ($I\Delta n$)

ROSS

Windsor SYNC

• For general non-delay type, 300 ms maximum



514 Identification and notices

Section 514 contains a number of significant changes (including illustrations of notices have been removed and examples are provided in *Appendix 11*). Some of the main changes are mentioned below So

Labels moved,

Letter and Numeral size defined

No need to add labels to external sides of CU in residential and similar installs, where the exception is detailed.

CU still requires Label where 2 supplies are present, PV and DNO for example.

exception

"The requirements of this regulation need not be applied for domestic (household) premises or similar installations where certification for initial verification, complete with Guidance for Recipients as detailed in *Appendix 6*, has been issued to the person ordering the work"





Chapter 41 Protection against electric shock

411.3.1.2 Protective equipotential bonding

Has been redrafted. The regulation now requires that in each consumers installation within a building extraneous-conductive-parts that are liable to introduce a dangerous potential difference be connected to the main earthing terminal.

- (i) Metallic Water installation pipes
- (ii) Metallic Gas installation pipes
- (iii) Other metallic installation pipework and ducting
- (iv) & (v) no change: central heating, aircon & exposed metal of building

Note (Term insulating section removed) Where non-metallic pipes (e.g. plastic) enter a building and are then connected to metallic pipes within the building, the metallic pipes within the building do not normally require protective bonding as they are unlikely to be extraneous-conductive-parts

Incoming Telecoms cables with metal sheath equipotential bonding shall be applied. Consent from owner / operator required. If not obtained. Details shall be recorded in appropriate electrical certification .see Part 6









Regulation: 411.4.2 (TN Systems)



There is a changed note within this regulation for TN earthing systems. Previously stated PE and PEN conductors "**may**" additionally be connected to earth at point of entry to building

It is (now) recommended that an additional connection to Earth, by means of an earth electrode in accordance with *Chapter 54*, is made to the main earthing terminal. This recommendation does not apply to outbuildings of dwellings served by the installation





(REQUIREMENTS FOR ELECTRICAL INSTALLATIONS - BS 7671	Certificate No.:
DETAILS OF THE CLIENT	
INSTALLATION ADDRESS	
DESCRIPTION AND EXTENT OF THE INSTALLATION Description of installation:	New installation
Extent of installation covered by this Certificate:	Addition to an existing installation
	Alteration to an existing installation
(Use continuation sheet if necessary) See continuation sheet	No:
I/We being the person(s) responsible for the design of the electrical installation (as indicat of which are described above, having exercised reasonable skill and care when carrying or that the design work for which live have been responsible is to the best of myour knowle BS 7671:2018, amended to	ed by my/our signatures below), particulars but the design, hereby CERTIFY dge and belief in accordance with ollows:
Details of departures from BS 7671 (Regulations 120.3, 133.1.3 and 133.5):	
Details of permitted exceptions (Regulation 411.3.3). Where applicable, a suitable risk asses	sment(s) must be attached to this Certificate.
	Risk assessment attached
The extent of liability of the signatory or signatories is limited to the work described above	as the subject of this Certificate.
For the DESIGN of the installation: **(Where there is mutual re-	esponsibility for the design)
Signature: Date: Name (IN BLOCK LETTERS):	Designer No 1
Signature: Date: Name (IN BLOCK LETTERS):	Designer No 2**
FOR CONSTRUCTION I being the person responsible for the construction of the electrical installation (as indicate which are described above, having exercised reasonable skill and care when carrying out construction work for which I have been responsible is to the best of my knowledge and be amended to(date) except for the departures, if any, detailed as follows:	d by my signature below), particulars of the construction hereby CERTIFY that the elief in accordance with BS 7671:2018,
Details of departures from BS 7671 (Regulations 120.3 and 133.5):	
The extent of liability of the signatory is limited to the work described above as the subject	of this Certificate.
For CONSTRUCTION of the installation:	
Signature: Date: Name (IN BLOCK LETTERS):	Constructor
FOR INSPECTION & TESTING Deing the person responsible for the inspection & testing of the electrical installation (as i of which are described above, having exercised reasonable skill and care when carrying o that the work for which I have been responsible is to the best of my knowledge and belief i amended to(date) except for the departures, if any, detailed as follows:	ndicated by my signature below), particulars ut the inspection & testing hereby CERTIFY in accordance with BS 7671:2018,
Details of departures from BS 7671 (Regulations 120.3 and 133.5):	
The extent of liability of the signatory is limited to the work described above as the subject	of this Certificate.
For INSPECTION AND TESTING of the installation:	
Signature: Date: Name (IN BLOCK LETTERS):	Inspector
NEXT INSPECTION I/We the designer(s), recommend that this installation is further inspected and tested after vears/months.	an interval of not more than

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	Address	:								
					Postco	de:		Tel No:		
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	Address	:								
					Postco	de:		Tel No:		
Constructor										
	Name:				Compa	ny:				
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TN-C-S	2-phase,	3-wire	H	3-wire	Prospectiv	re fault cu	irrent, Ipt ⁽²⁾	kA	Rated current	A
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Main switch Location BS(EN) No of poles Schedule of Item Des No. Des No. Des No. Con (Vis 2.0 Para sou 3.0 Met 4.0 Bas 5.0 Prof 6.0 Add 7.0 Dist	/ Switch-fus: inspections cription dition of consula inspection lailel or switch-to nods of protector nods of protector nods of protector nods of protector ribution equip S ON EXISTIN	umer's ir only) ed altern clion res other ion ment IG INST	C Fri Fri Vi	urrent rating	Outcome ✓/ N/A	A No. 9.0 10.0 11.0 12.0 13.0 14.0 0 on or alte	If RCD r RCD Ty Rated re Rated in Measure Descript Circuits Isolation Current- (perman Identifica Location Other sp Chapter voltage o	nain switch pe medelay	ng current (i _{ss}) me me 	Outcome ✓ / N/A
And in switch Location No of poles Schedule of Item Des No. 2.0 Par sou 3.0 Met 4.0 Bas 5.0 Prot 6.0 Add 7.0 Dist	/ Switch-fus 'Inspections cription dition of consular inspection allel or switch- ces of supply nods of protect is protection protect thoral protect thoral protect is con EXISTIN	umer's ir only) ed altern tion res other ion IG INST	C Friend Strength Strengt	urrent rating	Outcome ✓/N/A	A A No. 8.0 9.0 10.0 11.0 12.0 13.0 14.0 on or alte	If RCD r RCD Ty Rated re Rated tii Measure Descript Circuits Isolation Current- (perman Identifica Location Other sg Chapter voltage of ration see	nain switch po po- issidual operatime delay	ng current ((,,,), me nd Final)) ant od) ces a bath or shower ons or locations s low llation(s) 44.1.2):	Outcome ✓ / N/A

Certificate No.:

GENERIC SCHEDULE OF CIRCUIT DETAILS

Certificate/Report number:.....

Distribution board details	
DB reference: Location:	Supplied from:
Distribution circuit OCPD: BS (EN): Type:	Rating/Setting:A

SPD Details: Type(s)*: T1
 T2
 T3[†] N/A

						(CIRCUIT	DETAIL	S												
			Conductor details				Overcurrent protective device					RCD									
						pe	Number & size						(Ω)§								
L Circuit number	Circuit description				≁ Reference method [‡]	ہ Number of points serv	ء Live (mm²)	د دpc (mm²)	BS (EN)	» Type	в Rating (A)	вreaking capacity (kA)	12 Maximum permitted Z _s	BS (EN)	adyT	I ^{źn} (mA)	er Rating (A)				
																+					
																<u> </u>					
																-					
	•					CODE	S FOR T	PES OF V	VIRING					1							
	A	В	С		D			E	F			G		н		0					
Thermo she	hermoplastic cables in sheathed cables metallic conduit Thermoplastic cables in non-metallic conduit		plastic insulated/ athed cables Thermoplastic cables in metallic conduit Thermoplastic cables		pplastic insulated/ Thermoplastic cables in athed cables metallic conduit Thermoplastic cables in non-metallic conduit		stic insulated/ Thermoplastic cables in metallic conduit non-metallic cables in non-metallic conduit non-metallic conduit		Thermoplastic cables in metallic trunking		Thermopla non-meta	Thermoplastic cables in non-metallic trunking		Thermoplastic SWA cables		ting SWA c	ables	Mineral insulated cables		Other - pleas	e state

• SPD Type. Where a combined T1 + T2 or T2 + T3 device is installed, indicate by licking both Type boxes. † Where a T3 SPD is installed to protect sensitive auptiment, enter details in Remarks, column 31, of the Schedule of Test Results. (See Section 534 of BS 76712018+A22022.) ± See Table A2 of Appendix 4 of BS 76712018+A2202.

Where the maximum permitted earth fault loop impedance value stated in column 12 is taken from a source other than the tabulated values given in Chapter 41 of BS 7671:2018+A2:2022, state the source of the data in the appropriate cell for the circuit in the 'Remarks', column 31, of the Schedule of Test Results.

CUCECO | I CUCECO | COS | Kingfisher | WWWindsor

GENERIC SCHEDULE OF TEST RESULTS

Certificate/Report No.:

Distribution board details DB reference: Z									_ kA	Details of test instruments used (serial and/or asset numbers) Multifunction: Continuity: Insulation resistance: Earth fault loop impedance: RCD: Earth electrode resistance:				
	TEST RESULT DETAILS													
	Continuity (Ω)				Insula	ation resis	stance		Z _s (Ω)	l) RCD		AFDD		
	Rin	ng final ci	rcuit	(R ₁ + F	R ₂) or R ₂	_]		"(su		ration	Remarks
LI Circuit number	r_{1} (line) (Ω)	ຣ r _n (neutral)	02 r ₂ (cpc)	12 (R ₁ + R ₂)	22 2	E Test voltage (V)	5 Live - Live (MΩ)	çç Live - Earth (MΩ)	s Polarity#	22 Maximum measured	Bisconnection time (r	& Test button operation	8 Manual test button oper	Include details of circuits and/or installed equipment vulnerable to damage when testing (continue on a separate sheet if necessary) 31
											-			
<u> </u>														
							<u> </u>							
<u> </u>			-	-										
								1						
Tested	Tested by name (Capitals):													

¶ Not all SPDs have visible functionality indication. # An X, denoting incorrect polarity, cannot be entered on to this schedule when issued with an Electrical Installation Certificate. ** RCD effectiveness is verified using an alternating current test at rated residual operating current (I__).



