

ELECTRICAL INSTALLATION CONDITION REPORT



Attendance Record

Work reference:

ESEIT33020

Site:

UPP - Swansea University
Cadel, Cardigan, Llansteffan & Talacharn
Bay Campus Fabian Way Crymlyn Burrows
Swansea
SA1 8EP

Date of attendance:

15/08/2025

Purchase order issued

PO-078891

Engineer Name

Michael Voong

Engineers Signature

Site Representative

Grant Adams

Site Representative Signature

Any observations noted within this report which make the installation unsatisfactory have been relayed to our Estimating team who will produce a quotation and send it on as soon as possible.

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(Electrical Installations – BS7671 IET Wiring Regulations)



Reference Number

ESEITTC10070042_88

PTSG Job Ref

ESEIT33020

Client Details

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Details of Client

UPP Residential Services Ltd
1st Floor
12 Arthur Street
City of London
London
EC4R 9AB

Reason for producing the report:

Periodic inspection to assess the condition of the installation, its suitability for safe continued use and compliance with BS 7671

Details of the Installation

2

Occupier and Address:

UPP - Swansea University
UPP - Swansea University -
Cadell Building
Cadell, Cardigan, Llansteffan &
Talacharn
Bay Campus Fabian Way Crymlyn
Burrows

Swansea
SA1 8EP

Description of Premises:

Commercial

Estimated age of wiring (years)

9

Evidence of additions / alterations

Not
App
aren
t

If Yes, Age yrs

N/A

Installation records available

No

Date of last inspection

14/07/2020

Extent and Limitations of Inspection and Testing

3

Extent of installation covered by this report

Fixed wired 230-400V electrical installation. 100% inspection and testing of all circuits within the whole installation

where accessible and subject to limitations. At least 10% of accessories removed for inspection. Testing carried out in accordance with Guidance Note 3 section 3.8.4.

Agreed limitations on inspection and testing

Cables concealed within trunking and conduits, or cables and conduits concealed under floors in accessible roof spaces and generally within the fabric of the building or underground have not been inspected; The Installation Reference Methods for cabling have been estimated due to circuits/cables being concealed within the fabric of the building; Testing was not conducted at equipment located above 3 metres from the floor or where the engineer can stand as per Guidance Note 3 Table 3.4 Note 5. Testing will be carried out at any accessible point of the circuit which is lower than 3 metres.; Circuits with sensitive electronics including control units, dimmer packs and microprocessors, or deemed vulnerable by engineer, have not been tested for insulation resistance; Circuits supplying lighting and similar equipment that cannot reasonably be disconnected have been tested with line and neutral conductors connected together to Earth (Regulation 643.3.1 & 643.3.3); Circuits believed to be supplying vulnerable equipment have been tested for insulation resistance at 250V d.c. only; Presence of fire barriers, suitable seals and protection against thermal effects, have undergone an inspection to the accessible areas only; Circuits supplying heating, ventilation and air conditioning panels have been tested up to the isolation point within the panel

Operational limitations on inspection and testing

The Service Head cut-out fuses have not been visually inspected as items are sealed by the District Network Operator. Information, if recorded in this report, is as detailed on the fuse carrier.; Isolation and verification of circuits and equipment has been carried out where possible within the constraints of site operations; Due to any large furniture/equipment which could not be moved by the engineer at the time the inspection and tests were carried out, only accessible points are included in this report

Operational limitations were agreed with:

Name: Grant Adams

Position: Facilities Manager

The inspection and testing detailed in this report and accompanying schedules has been carried out in accordance with BS7671:2018 (IET Wiring Regulations) as amended to **No.3-July 2024** It should be noted that cables concealed within trunking and conduits, under floors, in roof spaces, and generally within the fabric of the building or underground, have not been inspected unless specifically agreed between the client and inspector prior to the inspection. An inspection should be made within an accessible roof space housing other electrical equipment

Overall Assessment of the Installation

4

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

Unsatisfactory

An unsatisfactory assessment indicates that dangerous (Code C1) and/or Potentially Dangerous (Code C2) and/or Further Investigation (FI) conditions have been identified.

Declaration

5

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

Inspected and Tested by:

Name: Michael Voong

Position: Engineer

Date: 15/08/2025

Signature:

Report reviewed and authorised for Issue by:

Name: Laura Davies

Position: EIT Administrator

Date: 10/11/2025

Signature:

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Details of the Contractor Responsible for the Inspection and Testing

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Company and Address including postcode

PTSG Electrical Services
11-14 Flemming Court
Whistler Drive
Castleford
WF10 5HW

Reason for producing the report:

Telephone Number: 01977 668771

CPS Provider: NICEIC

CPS Registration No: 32237

Recommendations

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Where the overall assessment of the suitability of the installation for continued use on page 1 is stated as 'UNSATISFACTORY', I/We recommend that any observations classified as 'Code 1 – Danger Present' or 'Code 2 – Potentially dangerous' are acted upon as a matter of urgency. Investigations without delay is recommended for observations identified as 'Code FI – Further Investigation Required'. Observations classified as 'Code 3 – Improvement recommended' should be given due consideration.

Please see additional comments on next page.

Subject to the necessary remedial action being taken I/We recommend that the installation is further inspected and tested after an interval not exceeding

5 years

Supply Characteristics & Earthing Arrangements

8

System Earthing Arrangement:

TN-C-S

No & Type of Live Conductors:

3 phase – 4 wire – a.c.

Other Sources of supply
(to be detailed on attached schedule)

N/A

Supply Polarity

Nominal Voltage⁽¹⁾ U_o

230 V

V

U 400 V

Supply Protective Device

BS (EN):

LIM

Type

LIM

Nominal Frequency, f⁽¹⁾

50 Hz

Hz

External Loop Impedance, Z_e

0.03 Ω

Ω

⁽¹⁾ By Enquiry

Rating:

LIM A

Breaking capacity

LIM kA

kA

Prospective Fault Current, I_{pf} (kA)

18.2 kA

kA

⁽²⁾ By Enquiry or by measurement

Particulars of the Installations

9

Maximum Demand (Load)

N/V

A

Fault Protection

ADS

Main Switch or Circuit Breaker

Means of Earthing

Distributors Facility

Electrode Details (if applicable)

Type

N/A

Location

MPB/RESI

Installation Earth Electrode

N/A

Location

N/A

Type

MCCB

Voltage Rating

400 V

RCD Operating Current

N/A

RCD Rated Time Delay

N/A ms

RCD Operating Time at @I_{Δn}

N/A ms

Resistance to Earth

N/A

Current Rating

1250

No. of poles

4

Main Protective Conductors

Earth Conductor

Material

Copper

Csa

185 mm²

Continuity & Connection

Water

Material

Copper

Csa

50 mm²

Gas

Material

Copper

Csa

50 mm²

Oil

N/A

Material

N/A

Csa

N/A mm²

Steel

N/A

Material

N/A

Csa

N/A mm²

Other

N/A

Material

N/A

Csa

N/A mm²

Observations

Referring to the attached schedules of inspection and test results, and subject to the limitations specified on page 1 of this report under 'Extent and Limitations of Inspection and Testing'

No remedial action required:

N/A

The following observations are made:

Observation(s)

Please see observation sheet at the end of the report

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General condition of the Installation in terms of Electrical Safety

Adequacy of earthing and bonding:

Main Equipotential Bonding conductors to incoming water & gas are located at the entry points to the building and are of adequate cable size and type.

Connection and labelling of conductors is adequate.

Other earthing arrangements throughout the installation are also adequate.

Suitability of switchgear and control gear:

Switchgear at the main distribution board supplying the various distribution boards throughout the installation are BS 60947-2 overcurrent protective devices and are of the correct type and rating.

The majority of protective devices protecting final circuits are BS60898 and BS61009, and other than circuits listed in the observations are all of the correct type and rating for the intended use.

The type(s) of wiring system, and its condition:

Distribution circuits are wired in XLPE SWA cable using the reference method E/F.

Final circuits are wired in PVC/PVC T&E cable, PVC singles, XLPE SWA, and some FP200 cable that's using the reference method B, C, D & E/F.

There is not a mixture of new and old wiring colours throughout the installation.

The serviceability of equipment, including accessories:

Equipment and accessories visually inspected throughout the installation were generally found to be in a satisfactory condition other than any damaged accessories detailed in the observations.

The presence of adequate identification and notices:

BS951 'electrical safety connection' notices are present at main equipotential bonding conductor connections.

There are several circuits which are unlabelled at distribution boards, which will require further investigation to identify.

There are also some missing, inaccurate circuit schedules at distribution equipment that require updating.

The extent of any wear and tear, damage, or other deterioration:

There are no signs of wear and tear, damage or other deterioration other than listed in the observations.

Changes in the use of the building which may lead to deficiencies in the installation:

There have not been changes to the original intended use of the building.

Therefore, the installation is still suitable, and any later additions to the installation have been installed to BS7671

Other Comments

N/A

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Inspection Schedule (1)

✓: Acceptable Condition. C1 or C2: Unacceptable Condition. C3: N/V: Not verified. LIM: Limitation N/A: Not applicable. FI: Further Investigation Improvement recommended.

1. External Condition of Intake Equipment (Visual Inspection Only)

Comments

Outcome

Service Cable

.

✓

Service Head

.

✓

Earthing Arrangements

.

✓

Meter tails

.

✓

Metering equipment

.

✓

Isolator (where present)

.

✓

2. Presence of Adequate Arrangements for Parallel or Switched Alternative Sources

Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)

N/A

Adequate arrangements where a generating set operates in parallel with the public supply (551.7)

N/A

3. Automatic Disconnection of Supply

Main earthing/bonding arrangements (411.4; Chapter 54):

Presence of distributor's earthing arrangement (542.1.2.1; 542.1.2.2) or earth electrode arrangement (542.1.2.3)

✓

Adequacy of earthing conductor size (542.3; 543.1.1)

✓

Adequacy of earthing conductor connections (542.3.2)

✓

Accessibility of earthing conductor connections (543.3.2)

✓

Adequacy of main protective bonding conductor sizes (544.1)

✓

Adequacy and location of main protective bonding conductor connections (543.3.2; 544.1.2)

✓

Accessibility of all protective bonding connections (543.3.2)

✓

Provision of earthing/bonding labels at all appropriate locations (514.13)

✓

FELV (Functional extra-low voltage) – requirements satisfied (411.7; 411.7.1)

N/A

4. Other Methods of Protection (Where the methods listed below are employed details should be provided on separate sheets)

Non-conducting location (418.1)

N/A

Earth-free local equipotential bonding (418.2)

N/A

Electrical separation (Section 413; 418.3)

N/A

Double insulation (Section 412)

N/A

Reinforced insulation (Section 412)

N/A

5. Distribution Equipment

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

✓

Security of fixing (134.1.1)

C3

Condition of insulation of live parts (416.1)

✓

Adequacy/security of barriers (416.2)

✓

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

✓

Condition of enclosure(s) in terms of fire rating etc (421.1.6; 421.1.201; 526.5)

✓

Enclosure not damaged/deteriorated so as to impair safety (651.2)

✓

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Inspection Schedule (2)

Presence and effectiveness of obstacles (417.2)		N / A
Placing out of reach (417.3)		N / A
Presence of main switch(es), linked where required (462.1; 462.1.201; 462.2)		✓
Operation of main switch(es) (functional check) (643.10)		✓
Manual operation of circuit-breakers, RCDs and AFDD's to prove functionality (643.10)		C 3
Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check) (643.10)		✓
RCD(s) provided for fault protection - includes RCBOs (411.4.204; 411.5.2; 531.2)		N / A
Confirmation of indication that SPD is functional (651.4)		✓
RCD(s) provided for additional protection/requirements, where required - includes RCBOs (411.3.3; 415.1)		✓
Presence of RCD six-monthly test notice at or near requirement, where required (514.12.2)		✓
Presence of diagrams, charts or schedules at or near equipment, where required (514.9.1)		C 3
Presence of alternative supply warning notice at or near equipment, where required (514.15)		N / A
Presence of next inspection recommendation label (514.12.1)		✓
Presence of other required labelling (please specify) (Section 514)		N / A
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)		C 3
Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)		✓
Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.5; 522.8.11)		✓
Protection against electromagnetic effects where cables enter ferromagnetic enclosures (521.5.1)		✓
6. Distribution Circuits		
Identification of conductors (514.3.1)		✓
Cables correctly supported throughout their run (521.10.202; 522.8.5)		✓
Condition of insulation of live parts (416.1)		✓
Non-sheathed cables protected by enclosure in conduit, duct or trunking (521.10.1)		✓
Suitability of containment systems for continued use (including flexible conduit) (Section 522)		✓
Cables correctly terminated in enclosures (Section 526)		✓
Confirmation that ALL conductor connections, including to busbars, are correctly located in terminals and are tight and secure (526.1)		L I M
Examination of cables for signs of unacceptable thermal or mechanical damage/deterioration (421.1; 522.6)		✓
Adequacy of cables for current-carrying capacity with regard to the type and nature of installation (Section 523)		✓
Adequacy of protective devices: type and rated current for fault protection (411.3)		C 3
Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)		✓
Coordination between conductors and overload protective devices (433.1; 533.2.1)		✓
Cable installation methods/practices with regard to the type and nature of installation and external influences (Section 522)		✓
Where exposed to direct sunlight, cable of a suitable type (522.11.1)		✓

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Inspection Schedule (3)

Cables concealed under floors, above ceiling, in walls/partitions less than 50 mm from a surface, and in partitions containing metal parts:

1 installed in prescribed zones (see Extent and Limitations)(522.6.202)* or		L I M
2 incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damaged by nails, screws and the like (see Extent and Limitations)(522.6.204)*		L I M
Provision of fire barriers, sealing arrangements and protection again thermal effects (Section 527)		✓
Band II cables segregated/separated from Band I cables (528.1)		✓
Cables segregated/separated from non-electrical services (528.3)		✓
Condition of circuit accessories (651.2)		✓
Suitability of circuit accessories for external influences (512.2)		✓
Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)		✓
Adequacy of connections, including cpcs, within accessories and to fixed and stationary equipment - identify/record numbers and locations of items inspected (Section 526)		✓
Presence, operation and correct location of appropriate devices for isolation and switching (Chapter 46; Section 537)		✓
General condition of wiring systems (651.2)		✓
Temperature rating of cable insulation (522.1.1; Table 52.1)		✓

7. Final Circuit

Identification of conductors (514.3.1)		✓
Cables correctly supported throughout their run (521.10.202; 522.8.5)		✓
Condition of insulation of live parts (416.1)		✓
Non-sheathed cables protected by enclosure in conduit, duct or trunking (521.10.1)		✓
Suitability of containment systems for continued use (including flexible conduit) (Section 522)		✓
Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523)		C 2
Adequacy of protective devices: type and rated current for fault protection (411.3)		✓
Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)		✓
Coordination between conductors and overload protective devices (433.1; 533.2.1)		C 2
Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522)		✓

Cables concealed under floors, above ceilings, in walls/partitions, adequately protected against damage (522.6.201; 522.6.202; 522.6.203; 522.6.204)

1 installed in prescribed zones (see Extent and Limitations) (522.6.202)		L I M
2 incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damaged by nails, screws and the like (see Extent and Limitations)(522.6.201; 522.6.204) or*		L I M
Provision of additional protection by 30 mA RCD		
1 *for all socket-outlets of rating 32 A or less unless exempt (41.3.3)		✓
2 *for the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)		✓
3 *for cables concealed in walls at a depth of less than 50mm (522.6.202; 522.6.203)		✓
4 *for cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203)		N / A
5 *for final circuits supplying luminaires within domestic (household) premises (411.3.4)		N / A

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Inspection Schedule (4)

Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527)		✓
Band II cables segregated/separated from Band I cables (528.1)		✓
Cables segregated/separated from non-electrical services (528.3)		✓
Termination of cables at enclosures - identify/record numbers and location of items inspected (Section 526) (Extent of sampling is indicated in Section 3)		
1 Connections under no undue strain (526.6)		✓
2 No basic insulation of conductor visible outside enclosure (526.8)		✓
3 Connections of live conductors adequately enclosed (526.5)		✓
4 Adequately connected at point of entry to enclosure (glands, bushes etc) (522.8.5)		✓
Condition of accessories including socket-outlets, switches and joint boxes (651.2)		✓
Suitability of accessories for external influences (512.2)		✓
Single-pole switching or protective devices in line conductors only (132.14.1; 530.3.3)		✓
8. Isolation and Switching		
Isolators (Sections 460; 537)		
1 Presence and condition of appropriate devices (Section 462; 537.2)	.	✓
2 Acceptable location - state if local or remote from equipment in question (Section 462; 537.2.7)	.	✓
3 Capable of being secured in the OFF position (462.3)	.	✓
4 Correct operation verified (643.10)	.	✓
5 Clearly identified by position and/or durable marking (537.2.7)	.	✓
6 Warning label posted in situations where live parts cannot be isolated by the operation of a single device (514.11.1; 537.1.2)	.	N / A
Switching off for mechanical maintenance (Section 464; 537.3.2)		
1 Presence and condition of appropriate devices (Section 464.1; 537.3.2)	.	✓
2 Acceptable location - state if local or remote from equipment in question (537.3.2.4)	.	✓
3 Capable of being secured in the OFF position (462.3)	.	✓
4 Correct operation verified (643.10)	.	F I
5 Clearly identified by position and/or durable marking (537.3.2.4)	.	F I
Emergency switching/stopping (Section 465; 537.3.3)		
1 Presence and condition of appropriate devices (Section 465; 537.3.3; 537.4)	.	✓
2 Readily accessible for operation where danger might occur (537.3.3.6)	.	✓
3 Correct operation verified (643.10)	.	F I
4 Clearly identified by position and/or durable marking (537.3.3.6)	.	F I
Functional switching (Section 463; 537.3.1)		
1 Presence and condition of appropriate devices (537.3.1.1; 537.3.1.2)	.	✓
2 Correct operation verified (537.3.1.1; 537.3.1.2)	.	F I

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Inspection Schedule (5)

9. Current Using Equipment (Permanently Connected)

Condition of equipment in terms of IP rating etc (416.2)		✓
Equipment does not constitute a fire hazard (Section 421)		✓
Enclosure not damaged/deteriorated so as to impair safety (134.1.1; 416.2; 512.2)		✓
Suitability for the environment and external influences (512.2)		✓
Security of fixing (134.1.1)		✓
Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire: List number and location of luminaires inspected (separate page)(527.2)(Extent of sampling is indicated in Section 3)		✓
Recessed luminaires (downlighters)		
1 Correct type of lamps fitted (559.3.1)		✓
2 Installed to minimise build-up of heat by use of "fire rated" fitting, insulation displacement box or similar (421.1.2)		✓
3 No signs of overheating to surrounding building fabric (559.4.1)		✓
4 No signs of overheating to conductors/ terminations (526.1)		✓

10. Location(s) containing a Bath or Shower

	Comments	
Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3)		✓
Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)		N/A
Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)		N/A
Presence of supplementary bonding conductors, unless not required by BS7671:2018 (701.415.2)		✓
Low voltage (e.g. 230 volt) socket-outlets sited at least 3 m from zone 1 (701.512.3)		✓
Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)		✓
Suitability of accessories and control gear etc. for a particular zone (701.512.3)		✓
Suitability of current-using equipment for particular position within the location (701.55)		✓

11. Special Installations or Locations (if any special installations or locations are present, list the particular inspections applied on a separate sheet

Inspected by

Name: Michael Voong

Position: Engineer

Date: 15/08/2025

Signature:

Circuit Details



Reference Number ESEITTC10070042_86 **PTSG Job Ref** ESEIT33020

DB Reference Rising Busbar (Core A)+1 **DB Location** Cardell Riser Cupboards

Distribution Board Comments N/A

Supply From MPB/RESI **Circuit Number** 2/TP **Over Current Device** 60947 MCCB **RCD Operating Current** N/A mA

SPD Type(s) N/A **SPD Indicator** N/A **Device Rating** 400 A Type S RCD N/A **RCD Operating time at I_{Δn}** N/A ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
13/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13/L2	Sub Main - DB-CL13-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
13/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/L3	Sub Main - DB-CL14-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
15/TP	63A Commando Socket	Radial Circuit	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	O	E&F	16	16
16/L1	Sub Main - DB-CL15-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
16/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/TP	Sub Main - DB-PL-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_86** PTSG Job Ref **ESEIT33020**

DB Reference **Rising Busbar (Core A)+1** DB Location **Cardell Riser Cupboards**

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

Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **William King** Date **13/08/2025**

Signature 

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.05** Ω Nominal Voltage **400** v Polarity Ipfc **9.90** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1Δn (ms)	@51Δn (ms)	Test Button Operation		AFDD Test Button Operation	
13/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13/L2	N/A	N/A	N/A	0.03	N/A	N/A	>999	>999	>999	250	✓	0.08	N/A	N/A	N/A	N/A	N/A	N/A
13/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/L3	N/A	N/A	N/A	0.02	N/A	N/A	>999	>999	>999	250	✓	0.07	N/A	N/A	N/A	N/A	N/A	N/A
15/TP	N/A	N/A	N/A	0.03	N/A	>999	>999	>999	>999	250	✓	0.08	N/A	N/A	N/A	N/A	N/A	N/A
16/L1	N/A	N/A	N/A	0.03	N/A	N/A	>999	>999	>999	250	✓	0.08	N/A	N/A	N/A	N/A	N/A	N/A
16/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/TP	N/A	N/A	N/A	0.02	N/A	>999	>999	>999	>999	250	✓	0.07	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number: **ESEITTC10070042_85** PTSG Job Ref: **ESEIT33020**

DB Reference: **Rising Busbar (Core A)** DB Location: **Cardell Riser Cupboards**

Distribution Board Comments: **N/A**

Supply From: **MPB/RESI** Circuit Number: **2/TP** Over Current Device: **60947** **MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **400** A Type S RCD: **N/A** RCD Operating time at IΔn: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/TP	Sub Main - DB-LL1	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	16	10
2/L1	Sub Main - DB-CL3-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
2/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L2	Sub Main - DB-CL4-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
3/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L3	Sub Main - DB-CL5-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
5/L1	Sub Main - DB-CL6-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
5/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L2	Sub Main - DB-CL7-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
6/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/L3	Sub Main - DB-CL8-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
8/L1	Sub Main - DB-CL9-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
8/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number	ESEITTC10070042_85	PTSG Job Ref	ESEIT33020
DB Reference	Rising Busbar (Core A)	DB Location	Cardell Riser Cupboards
Distribution Board Comments	N/A	Supply From	MPB/RESI 2/TP
		Over Current Device	60947 MCCB
		RCD Operating Current	N/A mA
		SPD Type(s)	N/A
		SPD Indicator	N/A
		Device Rating	400 A Type S RCD
		RCD Operating time at IΔn	N/A ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
8/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/L2	Sub Main - DB-CL10-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
9/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/TP	Sub Main - DB-LL5	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	16	10
11/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L3	Sub Main - DB-CL11-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
12/L1	Sub Main - DB-CL12-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
12/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_85** PTSG Job Ref **ESEIT33020**

DB Reference **Rising Busbar (Core A)** DB Location **Cardell Riser Cupboards**

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

Circuits with connected fixed appliances.;Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.05** Ω Nominal Voltage **400** v Polarity Ipfc **9.90** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@51Δn (ms)	@51Δn (ms)	Test Button Operation	
1/TP	N/A	N/A	N/A	0.01	N/A	>999	>999	>999	>999	250	✓	0.06	N/A	N/A	N/A	N/A
2/L1	N/A	N/A	N/A	0.01	N/A	N/A	>999	>999	>999	250	✓	0.06	N/A	N/A	N/A	N/A
2/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L2	N/A	N/A	N/A	0.01	N/A	N/A	>999	>999	>999	250	✓	0.06	N/A	N/A	N/A	N/A
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L3	N/A	N/A	N/A	0.02	N/A	N/A	>999	>999	>999	250	✓	0.07	N/A	N/A	N/A	N/A
5/L1	N/A	N/A	N/A	0.02	N/A	N/A	>999	>999	>999	250	✓	0.07	N/A	N/A	N/A	N/A
5/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L2	N/A	N/A	N/A	0.03	N/A	N/A	>999	>999	>999	250	✓	0.08	N/A	N/A	N/A	N/A
6/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/L3	N/A	N/A	N/A	0.02	N/A	N/A	>999	>999	>999	250	✓	0.07	N/A	N/A	N/A	N/A
8/L1	N/A	N/A	N/A	0.07	N/A	N/A	>999	>999	>999	250	✓	0.07	N/A	N/A	N/A	N/A
8/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/L2	N/A	N/A	N/A	0.02	N/A	N/A	>999	>999	>999	250	✓	0.07	N/A	N/A	N/A	N/A
9/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/TP	N/A	N/A	N/A	0.01	N/A	N/A	>999	>999	>999	250	✓	0.06	N/A	N/A	N/A	N/A
11/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L3	N/A	N/A	N/A	0.03	N/A	N/A	>999	>999	>999	250	✓	0.08	N/A	N/A	N/A	N/A
12/L1	N/A	N/A	N/A	0.02	N/A	N/A	>999	>999	>999	250	✓	0.07	N/A	N/A	N/A	N/A

Test Results



Reference Number **ESEITTC10070042_85** PTSG Job Ref **ESEIT33020**

DB Reference **Rising Busbar (Core A)** DB Location **Cardell Riser Cupboards**

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

Circuits with connected fixed appliances.;Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.05** Ω Nominal Voltage **400** v Polarity Ipfc **9.90** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			AFDD Test Button Operation	Circuit Comments	
	r1 (line)	r2 (neutral)	r3 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@500ms	@510ms	Test Button Operation			
12/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number: **ESEITTC10070042_84** PTSG Job Ref: **ESEIT33020**

DB Reference: **MPB/RESI+1** DB Location: **Cardell A - 00 LV Switch Room**

Distribution Board Comments: **N/A**

Supply From: **Origin** Circuit Number: **N/A** Over Current Device: **LIM** **LIM** RCD Operating Current: **N/A** mA

SPD Type(s): **1&2** SPD Indicator: Device Rating: **LIM** A Type S RCD: **N/A** RCD Operating time at IΔn: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
13/TP	Sub Main - Rising Busbar (Core C)	Sub Main	1	5	60947	MCCB	400	50	0.0546	N/A	N/A	N/A	N/A	G	E&F	185	95
14/TP	Sub Main - Rising Busbar (Core D)	Sub Main	1	5	60947	MCCB	400	50	0.0546	N/A	N/A	N/A	N/A	G	E&F	120	70
15/TP	Sub Main - DB-FFPB	Sub Main	1	5	60947	MCCB	125	36	0.1748	N/A	N/A	N/A	N/A	G	E&F	50	25
16/TP	Sub Main - DB-EXT	Sub Main	1	5	60947	MCCB	63	36	0.3468	N/A	N/A	N/A	N/A	G	E&F	16	10
17/L1	Sub Main - DB-CL1-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
17/L2	Sub Main - DB-CL2-A	Sub Main	1	5	60947	MCCB	63	25	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	10
17/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
24/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_84** PTSG Job Ref **ESEIT33020**

DB Reference **MPB/RESI+1** DB Location **Cardell A - 00 LV Switch Room**

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

Circuits with connected fixed appliances.;Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **William King** Date **13/08/2025**

Signature 

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.03** Ω Nominal Voltage **400** v Polarity Ipfc **18.2** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)						Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage	Polarity		@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
13/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.05	N/A	N/A	N/A	N/A	2 x 185 SWA in parallel
14/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.05	N/A	N/A	N/A	N/A	2 x 120mm SWA in parallel
15/TP	N/A	N/A	N/A	0.01	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.05	N/A	N/A	N/A	N/A	
16/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.05	N/A	N/A	N/A	N/A	
17/L1	N/A	N/A	N/A	0.05	N/A	N/A	>999	>999	>999	250	✓	0.08	N/A	N/A	N/A	N/A	
17/L2	N/A	N/A	N/A	0.04	N/A	N/A	>999	>999	>999	250	✓	0.07	N/A	N/A	N/A	N/A	
17/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
19/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
20/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
21/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
22/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
23/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
24/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10070042_83		PTSG Job Ref	ESEIT33020	
DB Reference	MPB/RESI		DB Location	Cardell A - 00 LV Switch Room	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A	Origin	N/A		LIM LIM	N/A mA
	SPD Type(s)	SPD Indicator	Device Rating	Type S RCD	RCD Operating time at IΔn
	1&2	✓	LIM A	N/A	N/A ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
1/TP	Surge Protection	Radial Circuit	1	5	60947	MCCB	80	36	0.2731	N/A	N/A	N/A	N/A	D	B	35	25
2/TP	Sub Main - Rising Busbar (Core A)	Sub Main	1	5	60947	MCCB	400	50	0.0546	N/A	N/A	N/A	N/A	G	E&F	70	35
3/TP	Sub Main - Rising Busbar (Core B)	Sub Main	1	5	60947	MCCB	400	50	0.0546	N/A	N/A	N/A	N/A	G	E&F	95	50
4/TP	Water Booster Set	Radial Circuit	1	5	60947	MCCB	80	36	0.2731	N/A	N/A	N/A	N/A	G	E&F	50	25
5/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/TP	Lift Core D	Radial Circuit	1	0.4	60947	MCCB	32	36	0.6828	N/A	N/A	N/A	N/A	G	E&F	6	6
7/TP	Sub Main - DB Feeder Pillar (Car Park)	Sub Main	1	5	60947	MCCB	63	36	0.3468	N/A	N/A	N/A	N/A	G	D	50	35
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_83** PTSG Job Ref **ESEIT33020**

DB Reference **MPB/RESI** DB Location **Cardell A - 00 LV Switch Room**

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

Circuits with connected fixed appliances.;Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **William King** Date **13/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.03** Ω Nominal Voltage **400** v Polarity Ipfc **18.2** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)				Test Voltage	Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth				@500ms	@50ms	Test Button Operation		AFDD Test Button Operation
1/TP	N/A	N/A	N/A	0.01	N/A	>999	LIM	>999	>999	250	✓	0.04	N/A	N/A	N/A	N/A	
2/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.05	N/A	N/A	N/A	N/A	2 x 70mm SWA in parallel
3/TP	N/A	N/A	N/A	0.02	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.05	N/A	N/A	N/A	N/A	
4/TP	N/A	N/A	N/A	0.09	N/A	>999	LIM	>999	>999	250	✓	0.12	N/A	N/A	N/A	N/A	
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/TP	N/A	N/A	N/A	0.50	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.53	N/A	N/A	N/A	N/A	
7/TP	N/A	N/A	N/A	LIM	N/A	LIM	LIM	LIM	LIM	LIM	LIM	LIM	N/A	N/A	N/A	N/A	No access at time of test
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
12/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_78** PTSG Job Ref **ESEIT33020**

DB Reference **DB-PL-A-Power+1** DB Location **Cardell A - Roof Plant Room**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **17/TP** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
13/L1	Plant Room - Ring Main	Ring Final Circuit	2	0.4	61009	B	32	10	1.3656	61009	A	30	32	D	B	2.5	2.5
13/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
24/TP	Surge Protection	Radial Circuit	1	5	60898	C	40	10	0.5462	N/A	N/A	N/A	N/A	D	B	10	10

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_78** PTSG Job Ref **ESEIT33020**

DB Reference **DB-PL-A-Power+1** DB Location **Cardell A - Roof Plant Room**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Tested By **William King** Date **13/08/2025**

Signature

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **400** v Polarity Ipfc **6.70** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
13/L1	0.24	0.24	0.26	0.12	N/A	N/A	LIM	>999	>999	250	✓	0.21	28.4	N/A	✓	N/A	
13/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
13/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
14/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
15/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
16/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
19/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
20/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
21/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
22/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
23/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
24/TP	N/A	N/A	N/A	0.01	N/A	>999	LIM	>999	>999	250	✓	0.08	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_77** PTSG Job Ref **ESEIT33020**

DB Reference **DB-PL-A-Power** DB Location **Cardell A - Roof Plant Room**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **17/TP** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
1/L1	Plant Room - Ring Main	Ring Final Circuit	2	0.4	61009	B	32	10	1.3656	61009	A	30	32	D	B	2.5	2.5
1/L2	Remote BMS Panel	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	B	2.5	2.5
1/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L1	Tubular Heater (Isolated)	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	D	B	2.5	2.5
2/L2	TH Unit	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	D	B	2.5	2.5
2/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L1	Roof Extraction Fan No 1	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
3/L2	Roof Extraction Fan No 2	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
3/L3	Roof Extraction Fan No 3	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
4/L1	Roof Extraction Fan No 4	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
4/L2	Roof Extraction Fan No 5	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
4/L3	Roof Extraction Fan No 6	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
5/L1	Roof Extraction Fan No 49	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
5/L2	Roof Extraction Fan No 50	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
5/L3	Roof Extraction Fan No 51	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
6/L1	Roof Extraction Fan No 52	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
6/L2	Roof Extraction Fan No 53	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
6/L3	Roof Extraction Fan No 54	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
7/L1	Roof Extraction Fan No 55	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
7/L2	Roof Extraction Fan No 56	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
7/L3	Roof Extraction Fan No 58	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number **ESEITTC10070042_77** PTSG Job Ref **ESEIT33020**

DB Reference **DB-PL-A-Power** DB Location **Cardell A - Roof Plant Room**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **17/TP** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at IΔn: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm²)	cpc csa (mm²)
12/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods: A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_77** PTSG Job Ref **ESEIT33020**

DB Reference **DB-PL-A-Power** DB Location **Cardell A - Roof Plant Room**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.;LIM

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **400** v Polarity Ipfc **6.70** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1s (ms)	@51s (ms)	Test Button Operation		AFDD Test Button Operation
1/L1	0.16	0.16	0.12	0.07	N/A	N/A	LIM	>999	>999	250	✓	0.14	28.9	N/A	✓	N/A	
1/L2	N/A	N/A	N/A	0.05	N/A	N/A	LIM	>999	>999	250	✓	0.12	28.7	N/A	✓	N/A	
1/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	LIM	LIM	LIM	N/A	
2/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	N/A	N/A	N/A	N/A	
2/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/L1	N/A	N/A	N/A	0.46	N/A	N/A	LIM	>999	>999	250	✓	0.53	N/A	N/A	N/A	N/A	
3/L2	N/A	N/A	N/A	0.25	N/A	N/A	LIM	>999	>999	250	✓	0.32	N/A	N/A	N/A	N/A	
3/L3	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.37	N/A	N/A	N/A	N/A	
4/L1	N/A	N/A	N/A	0.29	N/A	N/A	LIM	>999	>999	250	✓	0.36	N/A	N/A	N/A	N/A	
4/L2	N/A	N/A	N/A	0.41	N/A	N/A	LIM	>999	>999	250	✓	0.48	N/A	N/A	N/A	N/A	
4/L3	N/A	N/A	N/A	0.33	N/A	N/A	LIM	>999	>999	250	✓	0.40	N/A	N/A	N/A	N/A	
5/L1	N/A	N/A	N/A	0.69	N/A	N/A	LIM	>999	>999	250	✓	0.75	N/A	N/A	N/A	N/A	
5/L2	N/A	N/A	N/A	0.55	N/A	N/A	LIM	>999	>999	250	✓	0.62	N/A	N/A	N/A	N/A	
5/L3	N/A	N/A	N/A	0.51	N/A	N/A	LIM	>999	>999	250	✓	0.58	N/A	N/A	N/A	N/A	
6/L1	N/A	N/A	N/A	0.47	N/A	N/A	LIM	>999	>999	250	✓	0.54	N/A	N/A	N/A	N/A	
6/L2	N/A	N/A	N/A	0.38	N/A	N/A	LIM	>999	>999	250	✓	0.46	N/A	N/A	N/A	N/A	
6/L3	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	>999	250	✓	0.41	N/A	N/A	N/A	N/A	
7/L1	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.47	N/A	N/A	N/A	N/A	
7/L2	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	>999	250	✓	0.46	N/A	N/A	N/A	N/A	
7/L3	N/A	N/A	N/A	0.44	N/A	N/A	LIM	>999	>999	250	✓	0.50	N/A	N/A	N/A	N/A	
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
12/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_76** PTSG Job Ref **ESEIT33020**

DB Reference **DB-PL-A-Lighting** DB Location **Cardell A - Roof Plant Room**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **17/TP** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Plant Room - Lighting	Radial Circuit	3	0.4	61009	C	10	10	2.185	61009	A	30	10	D	B	1.5	1.5
1/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods: A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_76** PTSG Job Ref **ESEIT33020**

DB Reference **DB-PL-A-Lighting** DB Location **Cardell A - Roof Plant Room**

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

Circuits with connected lamps/control gear

Tested By **William King** Date **13/08/2025**

Signature *W King*

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **400** v Polarity Ipfc **6.70** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			AFDD Test Button Operation	Circuit Comments
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1An (ms)	@51An (ms)	Test Button Operation		
1/L1	N/A	N/A	N/A	0.18	N/A	N/A	LIM	>999	>999	250	<input checked="" type="checkbox"/>	0.25	28.7	N/A	<input checked="" type="checkbox"/>	N/A	
1/L2	N/A	N/A	N/A	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	N/A	N/A	N/A	N/A	
1/L3	N/A	N/A	N/A	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	N/A	N/A	N/A	N/A	
2/TP	N/A	N/A	N/A	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	N/A	N/A	N/A	N/A	
3/TP	N/A	N/A	N/A	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	N/A	N/A	N/A	N/A	
4/TP	N/A	N/A	N/A	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10070042_69		PTSG Job Ref	ESEIT33020			
DB Reference	DB-LL5-Power		DB Location	Cardell A - 05 Busbar Riser Cupboard			
Distribution Board Comments	N/A		Supply From	Rising Busbar (Core A)	Circuit Number	10/TP	
	Over Current Device	60947	MCCB	RCD Operating Current	N/A	mA	
	SPD Type(s)	N/A	SPD Indicator	N/A	Device Rating	63 A	
			Type S RCD	N/A	RCD Operating time at I_{Δn}	N/A	ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Fouth Floor - Circulation Ring Circuit	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
1/L2	Fifth Floor - Circulation Ring Circuit	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
1/L3	Sixth Floor - Circulation Ring Circuit	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L1	Fourth Floor - Commando Socket IT Hub	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	4	1.5
2/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L1	Fouth Floor - IT Hub Ring Circuit	Ring Final Circuit	2	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L2	Fifth Floor - IT Hub Ring Circuit	Ring Final Circuit	2	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L3	Sixty Floor - IT Hub Ring Circuit	Ring Final Circuit	2	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L1	Seventh Floor - Circulation Ring Circuit	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L2	Fifth Floor - Interconnecting Door Access Control	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
4/L3	Sixth Floor - Interconnecting Door Access Control	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
5/L1	Seventh Floor - Commando Socket IT Hub	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	4	1.5
5/L2	Fifth Floor - Interconnecting Door Access Control	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
5/L3	Sixth Floor - Interconnecting Door Access Control	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
6/L1	Seventh Floor - IT Hub Ring Circuit	Ring Final Circuit	2	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/L1	Fourth Floor - Interconnecting Door Access Control	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5

Circuit Details



Reference Number **ESEITTC10070042_69** PTSG Job Ref **ESEIT33020**

DB Reference **DB-LL5-Power** DB Location **Cardell A - 05 Busbar Riser Cupboard**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **10/TP** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
7/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/L1	Fourth Floor - Interconnecting Door Access Control	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
8/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/L1	Seventh Floor - Interconnecting Door Access Control	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
9/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L1	Seventh Floor - Interconnecting Door Access Control	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
10/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall
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Test Results



Reference Number **ESEITTC10070042_69** PTSG Job Ref **ESEIT33020**

DB Reference **DB-LL5-Power** DB Location **Cardell A - 05 Busbar Riser Cupboard**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.;LIM

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **230** v Polarity Ipfc **7.80** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Test Voltage	Polarity	Measured Zs (Ω)	RCD			Circuit Comments
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	@500ms				@50ms	Test Button Operation	AFDD Test Button Operation	
1/L1	0.90	0.90	1.10	0.50	N/A	N/A	LIM	>999	>999	250	✓	0.56	28.9	N/A	✓	N/A	
1/L2	0.83	0.81	0.93	0.45	N/A	N/A	LIM	>999	>999	250	✓	0.51	28.5	N/A	✓	N/A	
1/L3	0.94	0.95	1.30	0.54	N/A	N/A	LIM	>999	>999	250	✓	0.62	28.5	N/A	✓	N/A	
2/L1	N/A	N/A	N/A	0.13	N/A	N/A	LIM	>999	>999	250	✓	0.19	28.7	N/A	✓	N/A	
2/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/L1	0.15	0.15	0.25	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.19	28.9	N/A	✓	N/A	
3/L2	0.10	0.10	0.18	0.07	N/A	N/A	LIM	>999	>999	250	✓	0.16	24.9	N/A	✓	N/A	
3/L3	0.14	0.14	0.23	0.09	N/A	N/A	LIM	>999	>999	250	✓	0.17	28.1	N/A	✓	N/A	
4/L1	1.15	1.13	1.91	0.76	N/A	N/A	LIM	>999	>999	250	✓	0.81	28.5	N/A	✓	N/A	
4/L2	N/A	N/A	N/A	0.42	N/A	N/A	LIM	>999	>999	250	✓	0.48	28.0	N/A	✓	N/A	
4/L3	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	>999	250	✓	0.41	28.7	N/A	✓	N/A	
5/L1	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>999	>999	250	✓	0.17	28.0	N/A	✓	N/A	
5/L2	N/A	N/A	N/A	0.77	N/A	N/A	LIM	>999	>999	250	✓	0.83	27.7	N/A	✓	N/A	
5/L3	N/A	N/A	N/A	0.45	N/A	N/A	LIM	>999	>999	250	✓	0.51	29.0	N/A	✓	N/A	
6/L1	0.18	0.18	0.31	0.12	N/A	N/A	LIM	>999	>999	250	✓	0.28	28.9	N/A	✓	N/A	
6/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/L1	N/A	N/A	N/A	0.53	N/A	N/A	LIM	>999	>999	250	✓	0.59	28.9	N/A	✓	N/A	
7/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/L1	N/A	N/A	N/A	0.41	N/A	N/A	LIM	>999	>999	250	✓	0.47	25.0	N/A	✓	N/A	
8/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/L1	N/A	N/A	N/A	0.51	N/A	N/A	LIM	>999	>999	250	✓	0.57	28.8	N/A	✓	N/A	
9/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L1	N/A	N/A	N/A	0.55	N/A	N/A	LIM	>999	>999	250	✓	0.61	28.9	N/A	✓	N/A	
10/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Test Results



Reference Number **ESEITTC10070042_69** PTSG Job Ref **ESEIT33020**

DB Reference **DB-LL5-Power** DB Location **Cardell A - 05 Busbar Riser Cupboard**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.;LIM

Tested By **William King** Date **12/08/2025**

Signature 

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **230** v Polarity Ipfc **7.80** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@500ms	@510ms	Test Button Operation		AFDD Test Button Operation	
11/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number **ESEITTC10070042_68** PTSG Job Ref **ESEIT33020**

DB Reference **DB-LL5-Lighting** DB Location **Cardell A - 05 Busbar Riser Cupboard**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **18/TP** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Sixth Floor - Corridor Lighting	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
1/L2	Fourth Floor - Corridor Lighting	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
1/L3	Fifth Floor - Corridor Lighting	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
2/L1	Sixth Floor - Corridor Lighting	Radial Circuit	9	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
2/L2	Fourth Floor - Corridor Lighting	Radial Circuit	9	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
2/L3	Fifth Floor - Corridor Lighting	Radial Circuit	9	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
3/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L2	Seventh Floor - Corridor Lighting	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
3/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L2	Seventh Floor - Corridor Lighting	Radial Circuit	9	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
4/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods: A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable H. 100. Twin and Earth above plasterboard ceiling, insulation <100mm H. 101. Twin and Earth above plasterboard ceiling, insulation >100mm NA. 102. Twin and Earth within insulated stud wall, touching inner wall O. 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_68** PTSG Job Ref **ESEIT33020**

DB Reference **DB-LL5-Lighting** DB Location **Cardell A - 05 Busbar Riser Cupboard**

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

Circuits with connected lamps/control gear

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Tested By **William King** Date **12/08/2025**

Signature

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **400** v Polarity Ipfc **7.80** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD				Circuit Comments	
	r1 (line)	r _n (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1 Δ n (ms)	@51 Δ n (ms)	Test Button Operation		AFDD Test Button Operation
1/L1	N/A	N/A	N/A	0.85	N/A	N/A	LIM	>999	>999	250	✓	0.91	28.9	N/A	✓	N/A	
1/L2	N/A	N/A	N/A	0.71	N/A	N/A	LIM	>999	>999	250	✓	0.77	27.9	N/A	✓	N/A	
1/L3	N/A	N/A	N/A	0.93	N/A	N/A	LIM	>999	>999	250	✓	0.99	28.8	N/A	✓	N/A	
2/L1	N/A	N/A	N/A	0.79	N/A	N/A	LIM	>999	>999	250	✓	0.86	28.1	N/A	✓	N/A	
2/L2	N/A	N/A	N/A	0.85	N/A	N/A	LIM	>999	>999	250	✓	0.91	28.0	N/A	✓	N/A	
2/L3	N/A	N/A	N/A	0.90	N/A	N/A	LIM	>999	>999	250	✓	0.96	28.7	N/A	✓	N/A	
3/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/L2	N/A	N/A	N/A	1.29	N/A	N/A	LIM	>999	>999	250	✓	1.35	28.9	N/A	✓	N/A	
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L2	N/A	N/A	N/A	0.69	N/A	N/A	LIM	>999	>999	250	✓	0.75	25.5	N/A	✓	N/A	
4/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_63** PTSG Job Ref **ESEIT33020**

DB Reference **DB-LL1-Power** DB Location **Cardell A - 01 Busbar Riser Cupboard**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **1/TP** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Ground Floor - Circulation Area Ring Main	Ring Final Circuit	8	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
1/L2	First Floor - Circulation Area Ring Main	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
1/L3	Second Floor - Circulation Area Ring Main	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L2	First Floor - IT Hub Ring Main	Ring Final Circuit	2	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L3	CCTV - Courtyard	Radial Circuit	1	0.4	61009	B	20	10	2.185	61009	A	30	20	A	E&F	2.5	1.5
3/L1	Ground Floor - LV Switch Room Ring Main	Ring Final Circuit	2	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L2	First Floor - IT Hub Commando	Radial Circuit	1	0.4	61009	C	16	10	1.3656	61009	A	30	16	A	E&F	4	1.5
3/L3	CCTV North West Corner	Radial Circuit	1	0.4	61009	B	20	10	2.185	61009	A	30	20	A	E&F	2.5	1.5
4/L1	Ground Floor - IT Hub Ring Main	Ring Final Circuit	2	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L2	Third Floor - Circulation Ring Main	Ring Final Circuit	2	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L3	Second Floor - Door Access	Radial Circuit	1	0.4	61009	C	16	10	1.3656	61009	A	30	16	A	E&F	2.5	1.5
5/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/L3	Second Floor - Door Access	Radial Circuit	1	0.4	61009	C	16	10	1.3656	61009	A	30	16	A	E&F	2.5	1.5
6/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L3	Unable to verify	Radial Circuit	1	0.4	61009	C	16	10	1.3656	61009	A	30	16	O	E&F	2.5	2.5
7/L1	Ground Floor - Powered Door Access	Radial Circuit	1	0.4	61009	C	16	10	1.3656	61009	A	30	16	A	E&F	2.5	1.5
7/L2	First Floor - Door Access	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
7/L3	Unable to verify	Radial Circuit	1	0.4	61009	C	16	10	1.3656	61009	A	30	16	O	E&F	2.5	2.5
8/L1	Communal Room - Access Control	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
8/L2	Third Floor - Access Control	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5

Circuit Details



Reference Number: **ESEITTC10070042_63** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-LL1-Power** DB Location: **Cardell A - 01 Busbar Riser Cupboard**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **1/TP** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
8/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/L1	Ground Floor - Powered Access Main Entrance	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
9/L2	Third Floor - Door Access	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
9/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L1	Ground Floor - LV Switch Room Heater	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	4	1.5
11/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/TP	Surge Protection Device	Radial Circuit	1	5	60898	C	40	10	0.5462	N/A	N/A	N/A	N/A	B	B	10	4

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_63** PTSG Job Ref **ESEIT33020**

DB Reference **DB-LL1-Power** DB Location **Cardell A - 01 Busbar Riser Cupboard**

Details of circuits and/or installed equipment vulnerable to damage when testing
 Tested By
 Name **William King** Date **13/08/2025**
 Signature

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.05** Ω Nominal Voltage **400** v Polarity Ipfc **9.28** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Test Voltage	Polarity	Measured Zs (Ω)	RCD			Circuit Comments
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	@500ms				@50ms	Test Button Operation	AFDD Test Button Operation	
1/L1	1.15	1.15	1.51	0.65	N/A	N/A	LIM	>999	>999	250	✓	0.70	28.5	N/A	✓	N/A	
1/L2	0.81	0.80	0.68	0.37	N/A	N/A	LIM	>999	>999	250	✓	0.44	24.1	N/A	✓	N/A	
1/L3	0.95	0.95	1.30	0.56	N/A	N/A	LIM	>999	>999	250	✓	0.61	27.2	N/A	✓	N/A	
2/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/L2	0.06	0.06	0.09	0.04	N/A	N/A	LIM	>999	>999	250	✓	0.12	28.0	N/A	✓	N/A	
2/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	29.0	N/A	✓	N/A	No access
3/L1	>99.9	>99.9	>99.9	0.50	N/A	N/A	LIM	>999	>999	250	✓	0.58	29.0	N/A	✓	N/A	
3/L2	N/A	N/A	N/A	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.20	28.1	N/A	✓	N/A	
3/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	28.9	N/A	✓	N/A	No access
4/L1	0.14	0.13	0.22	0.09	N/A	N/A	LIM	>999	>999	250	✓	0.17	28.7	N/A	✓	N/A	
4/L2	0.93	0.93	1.18	0.52	N/A	N/A	LIM	>999	>999	250	✓	0.57	27.8	N/A	✓	N/A	
4/L3	N/A	N/A	N/A	0.41	N/A	N/A	LIM	>999	>999	250	✓	0.46	28.3	N/A	✓	N/A	
5/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/L3	N/A	N/A	N/A	0.75	N/A	N/A	LIM	>999	>999	250	✓	0.80	29.5	N/A	✓	N/A	
6/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	28.9	N/A	✓	N/A	
7/L1	N/A	N/A	N/A	0.55	N/A	N/A	LIM	>999	>999	250	✓	0.60	27.7	N/A	✓	N/A	
7/L2	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	>999	250	✓	0.44	25.9	N/A	✓	N/A	
7/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	29.0	N/A	✓	N/A	
8/L1	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.45	29.0	N/A	✓	N/A	
8/L2	N/A	N/A	N/A	0.49	N/A	N/A	LIM	>999	>999	250	✓	0.54	27.1	N/A	✓	N/A	
8/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/L1	N/A	N/A	N/A	0.56	N/A	N/A	LIM	>999	>999	250	✓	0.61	25.5	N/A	✓	N/A	
9/L2	N/A	N/A	N/A	0.77	N/A	N/A	LIM	>999	>999	250	✓	0.82	29.7	N/A	✓	N/A	
9/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L1	N/A	N/A	N/A	0.37	N/A	N/A	LIM	>999	>999	250	✓	0.42	29.3	N/A	✓	N/A	
11/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Test Results



Reference Number **ESEITTC10070042_63** PTSG Job Ref **ESEIT33020**

DB Reference **DB-LL1-Power** DB Location **Cardell A - 01 Busbar Riser Cupboard**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **13/08/2025**

Signature 

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.05** Ω Nominal Voltage **400** v Polarity lpf **9.28** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@500ms	@510ms	Test Button Operation		AFDD Test Button Operation	
11/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14/TP	N/A	N/A	N/A	0.01	N/A	>999	LIM	>999	>999	250	<input checked="" type="checkbox"/>	0.06	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_62** PTSG Job Ref **ESEIT33020**

DB Reference **DB-LL1-Lighting** DB Location **Cardell A - 01 Busbar Riser Cupboard**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **1/TP** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **2** SPD Indicator: **✓** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Ground Floor - Corridor Lighting	Radial Circuit	8	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
1/L2	First Floor - Corridor Lighting	Radial Circuit	12	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
1/L3	Second Floor - Corridor Lighting	Radial Circuit	13	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
2/L1	Ground Floor - Corridor Lighting	Radial Circuit	14	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
2/L2	First Floor - Corridor Lighting	Radial Circuit	7	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
2/L3	Second Floor - Corridor Lighting	Radial Circuit	9	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
3/L1	Ground Floor - Switch Room Lighting	Radial Circuit	3	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
3/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L1	Ground Floor - Corridor Lighting	Radial Circuit	8	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
4/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/L1	Third Floor - Corridor Lighting	Radial Circuit	13	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
5/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L1	Third Floor - Corridor Lighting	Radial Circuit	8	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
6/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall
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Test Results



Reference Number **ESEITTC10070042_62** PTSG Job Ref **ESEIT33020**

DB Reference **DB-LL1-Lighting** DB Location **Cardell A - 01 Busbar Riser Cupboard**

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

Circuits with connected lamps/control gear

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Tested By **William King** Date **13/08/2025**

Signature

Distribution Board Characteristics

Zs **0.05** Ω Nominal Voltage **400** v Polarity Ipfc **9.28** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@500ms	@510ms	Test Button Operation		AFDD Test Button Operation
1/L1	N/A	N/A	N/A	0.85	N/A	N/A	LIM	>999	>999	250	✓	0.90	40.9	N/A	✓	N/A	
1/L2	N/A	N/A	N/A	0.77	N/A	N/A	LIM	>999	>999	250	✓	0.83	28.9	N/A	✓	N/A	
1/L3	N/A	N/A	N/A	0.71	N/A	N/A	LIM	>999	>999	250	✓	0.76	28.1	N/A	✓	N/A	
2/L1	N/A	N/A	N/A	0.70	N/A	N/A	LIM	>999	>999	250	✓	0.75	28.1	N/A	✓	N/A	
2/L2	N/A	N/A	N/A	0.98	N/A	N/A	LIM	>999	>999	250	✓	1.03	27.5	N/A	✓	N/A	
2/L3	N/A	N/A	N/A	0.89	N/A	N/A	LIM	>999	>999	250	✓	0.94	26.9	N/A	✓	N/A	
3/L1	N/A	N/A	N/A	0.80	N/A	N/A	LIM	>999	>999	250	✓	0.85	27.9	N/A	✓	N/A	
3/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L1	N/A	N/A	N/A	0.63	N/A	N/A	LIM	>999	>999	250	✓	0.68	28.9	N/A	✓	N/A	
4/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/L1	N/A	N/A	N/A	0.83	N/A	N/A	LIM	>999	>999	250	✓	0.89	28.6	N/A	✓	N/A	
5/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/L1	N/A	N/A	N/A	0.99	N/A	N/A	LIM	>999	>999	250	✓	1.04	28.8	N/A	✓	N/A	
6/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_61** PTSG Job Ref **ESEIT33020**

DB Reference **DB-Laundrette-2** DB Location **00 Laundrette**

Distribution Board Comments: **N/A**

Supply From: **ISO/Laundrette** Circuit Number: **1/TP** Over Current Device: **LIM LIM** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **LIM A** Type S RCD: **N/A** RCD Operating time at $I_{\Delta n}$: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
1/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L3	Stack 17/18	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
7/L1	Pump House Power	Radial Circuit	N/V	0.4	60898	C	32	10	0.6828	N/A	N/A	N/A	N/A	A	E&F	6	2.5
7/L2	Dryer 1	Radial Circuit	1	0.4	60898	C	32	10	0.6828	N/A	N/A	N/A	N/A	A	E&F	6	2.5
7/L3	Dryer 2	Radial Circuit	1	0.4	60898	C	32	10	0.6828	N/A	N/A	N/A	N/A	A	E&F	6	2.5
8/L1	Stack 16/18	Radial Circuit	1	0.4	60898	C	32	10	0.6828	N/A	N/A	N/A	N/A	A	E&F	6	2.5
8/L2	Dryer 3	Radial Circuit	1	0.4	60898	C	32	10	0.6828	N/A	N/A	N/A	N/A	A	E&F	6	2.5
8/L3	Stack 16/17	Radial Circuit	1	0.4	60898	C	32	10	0.6828	N/A	N/A	N/A	N/A	A	E&F	6	2.5
9/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13/TP	HK 4	Radial Circuit	1	0.4	60898	C	16	10	1.3656	N/A	N/A	N/A	N/A	G	E&F	6	6
14/TP	HK 3	Radial Circuit	1	0.4	60898	C	16	10	1.3656	N/A	N/A	N/A	N/A	G	E&F	6	6
15/TP	HK 2	Radial Circuit	1	5	60898	C	40	10	0.5462	N/A	N/A	N/A	N/A	G	E&F	10	10
16/TP	HK 1	Radial Circuit	1	5	60898	C	40	10	0.5462	N/A	N/A	N/A	N/A	G	E&F	10	10

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_61** PTSG Job Ref **ESEIT33020**

DB Reference **DB-Laundrette-2** DB Location **00 Laundrette**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **13/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **400** v Polarity Ipfc **7.98** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@51 Δ n (ms)	@51 Δ n (ms)	Test Button Operation		AFDD Test Button Operation
1/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L3	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.36	N/A	N/A	N/A	N/A	
7/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	N/A	N/A	N/A	N/A	
7/L2	N/A	N/A	N/A	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.22	N/A	N/A	N/A	N/A	
7/L3	N/A	N/A	N/A	0.13	N/A	N/A	LIM	>999	>999	250	✓	0.19	N/A	N/A	N/A	N/A	
8/L1	N/A	N/A	N/A	0.20	N/A	N/A	LIM	>999	>999	250	✓	0.26	N/A	N/A	N/A	N/A	
8/L2	N/A	N/A	N/A	0.14	N/A	N/A	LIM	>999	>999	250	✓	0.20	N/A	N/A	N/A	N/A	
8/L3	N/A	N/A	N/A	0.13	N/A	N/A	LIM	>999	>999	250	✓	0.19	N/A	N/A	N/A	N/A	
9/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
12/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
13/TP	N/A	N/A	N/A	0.11	N/A	>999	LIM	>999	>999	250	✓	0.17	N/A	N/A	N/A	N/A	
14/TP	N/A	N/A	N/A	0.13	N/A	>999	LIM	>999	>999	250	✓	0.19	N/A	N/A	N/A	N/A	
15/TP	N/A	N/A	N/A	0.09	N/A	>999	LIM	>999	>999	250	✓	0.15	N/A	N/A	N/A	N/A	
16/TP	N/A	N/A	N/A	0.10	N/A	>999	LIM	>999	>999	250	✓	0.16	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_60** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-FFPB** DB Location: **Cardell A - 00 LV Switch Room**

Distribution Board Comments: **N/A**

Supply From: **MPB/RESI** Circuit Number: **15/TP** Over Current Device: **60947** **MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **1&2** SPD Indicator: **✓** Device Rating: **125** A Type S RCD: **N/A** RCD Operating time at IΔn: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
1/TP	SPD	Radial Circuit	1	5	60947	MCCB	80	36	0.2731	N/A	N/A	N/A	N/A	O	E&F	50	35
2/TP	Lift Control Panel (Core A)	Radial Circuit	1	0.4	60947	MCCB	32	36	0.6828	N/A	N/A	N/A	N/A	G	E&F	16	10
3/TP	Lift Control Panel (Core C)	Radial Circuit	1	0.4	60947	MCCB	32	36	0.6828	N/A	N/A	N/A	N/A	G	E&F	16	10
4/L1	Fire Alarm Panel	Radial Circuit	1	0.4	60947-3	MCCB	25	25	LIM	N/A	N/A	N/A	N/A	O	E&F	4	4
4/L2	Disabled Refuge Panel	Radial Circuit	1	0.4	60947-3	MCCB	25	25	LIM	N/A	N/A	N/A	N/A	O	E&F	4	4
4/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/TP	Sub Main - DB-FF1 (Core A)	Sub Main	1	5	60947	MCCB	63	36	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	16
8/TP	Sub Main - DB-FF2 (Core C)	Sub Main	1	5	60947	MCCB	63	36	0.3468	N/A	N/A	N/A	N/A	G	E&F	35	16
9/TP	Sub Main - DB-FF3 (Core A)	Sub Main	1	5	60947	MCCB	63	36	0.3468	N/A	N/A	N/A	N/A	G	E&F	25	16
10/TP	Sub Main - DB-FF4 (Core C)	Sub Main	1	5	60947	MCCB	63	36	0.3468	N/A	N/A	N/A	N/A	G	E&F	35	16
11/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_60** PTSG Job Ref **ESEIT33020**

DB Reference **DB-FFPB** DB Location **Cardell A - 00 LV Switch Room**

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

Circuits with connected fixed appliances.;Sub main circuits with connected distribution boards and associated final circuits and accessories

Tested By **William King** Date **13/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.05** Ω Nominal Voltage **400** v Polarity Ipfc **9.10** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)		Test Button Operation
1/TP	N/A	N/A	N/A	0.01	N/A	>999	LIM	>999	>999	250	✓	0.06	N/A	N/A	N/A	N/A
2/TP	N/A	N/A	N/A	0.25	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.31	N/A	N/A	N/A	N/A
3/TP	N/A	N/A	N/A	0.37	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.43	N/A	N/A	N/A	N/A
4/L1	N/A	N/A	N/A	0.43	N/A	N/A	LIM	>999	>999	250	✓	0.49	N/A	N/A	N/A	N/A
4/L2	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.46	N/A	N/A	N/A	N/A
4/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/TP	N/A	N/A	N/A	0.06	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.06	N/A	N/A	N/A	N/A
8/TP	N/A	N/A	N/A	0.08	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.14	N/A	N/A	N/A	N/A
9/TP	N/A	N/A	N/A	0.04	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.10	N/A	N/A	N/A	N/A
10/TP	N/A	N/A	N/A	0.18	N/A	LIM	LIM	LIM	LIM	LIM	✓	0.23	N/A	N/A	N/A	N/A
11/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number	ESEITTC10070042_59		PTSG Job Ref	ESEIT33020	
DB Reference	DB-FF3-A-Power		DB Location	Cardell A - 05 Communal Riser Cupboard	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A	DB-FFP	9/TP	60947	MCCB	N/A mA
SPD Type(s)	SPD Indicator	Device Rating	Type S RCD	RCD Operating time at IΔn	
N/A	N/A	100 A	N/A	N/A	ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm²)	epc csa (mm²)
1/L1	Fourth Floor - Fire Shutter	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
1/L2	Fifth Floor - Fire Shutter	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
1/L3	Sixth Floor - Fire Shutter	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
2/L1	Fourth Floor - Smoke Shaft AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
2/L2	Fifth Floor - Smoke Shaft AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
2/L3	Sixth Floor - Smoke Shaft AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
3/L1	Seventh Floor - Fire Shutter	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
3/L2	Eighth Floor - Head Of Shaft AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
3/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L1	Seventh Floor - Smoke Shaft AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
4/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/L1	Eighth Floor - Head Of Shaft Smoke AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
5/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L1	Eighth Floor - Head Of Stair Core AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
6/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_59** PTSG Job Ref **ESEIT33020**

DB Reference **DB-FF3-A-Power** DB Location **Cardell A - 05 Communal Riser Cupboard**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.10** Ω Nominal Voltage **400** v Polarity Ipfc **6.68** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@500ms	@510ms	Test Button Operation		AFDD Test Button Operation
1/L1	N/A	N/A	N/A	0.48	N/A	N/A	LIM	>999	>999	250	✓	0.58	29.6	N/A	✓	N/A	
1/L2	N/A	N/A	N/A	0.36	N/A	N/A	LIM	>999	>999	250	✓	0.46	27.9	N/A	✓	N/A	
1/L3	N/A	N/A	N/A	0.37	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.0	N/A	✓	N/A	
2/L1	N/A	N/A	N/A	0.33	N/A	N/A	LIM	>999	>999	250	✓	0.43	28.9	N/A	✓	N/A	
2/L2	N/A	N/A	N/A	0.24	N/A	N/A	LIM	>999	>999	250	✓	0.34	28.1	N/A	✓	N/A	
2/L3	N/A	N/A	N/A	0.28	N/A	N/A	LIM	>999	>999	250	✓	0.38	28.9	N/A	✓	N/A	
3/L1	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.50	28.9	N/A	✓	N/A	
3/L2	N/A	N/A	N/A	0.41	N/A	N/A	LIM	>999	>999	250	✓	0.51	28.0	N/A	✓	N/A	
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L1	N/A	N/A	N/A	0.37	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.9	N/A	✓	N/A	
4/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/L1	N/A	N/A	N/A	0.33	N/A	N/A	LIM	>999	>999	250	✓	0.43	22.8	N/A	✓	N/A	
5/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/L1	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	>999	250	✓	0.49	28.0	N/A	✓	N/A	
6/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_58** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-FF3-A-Lighting** DB Location: **Cardell A - 05 Comunnal Riser Cupboard**

Distribution Board Comments: **N/A**

Supply From: **DB-FFP** Circuit Number: **9/TP** Over Current Device: **60947** **MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **100** A Type S RCD: **N/A** RCD Operating time at IΔn: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
1/L1	Sixth Floor - Stair Lobby Lighting	Radial Circuit	13	0.4	61009	C	10	10	2.185	61009	A	30	10	O	E&F	1.5	1.5
1/L2	Fourth Floor - Stair Lobby Lighting	Radial Circuit	13	0.4	61009	C	10	10	2.185	61009	A	30	10	O	E&F	1.5	1.5
1/L3	Fifth Floor - Stair Lobby Lighting	Radial Circuit	18	0.4	61009	C	10	10	2.185	61009	A	30	10	O	E&F	1.5	1.5
2/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L2	Sevent Floor - Stair Lighting	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	O	E&F	1.5	1.5
2/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_58** PTSG Job Ref **ESEIT33020**

DB Reference **DB-FF3-A-Lighting** DB Location **Cardell A - 05 Comunnal Riser Cupboard**

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

Circuits with connected lamps/control gear

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.10** Ω Nominal Voltage **400** v Polarity Ipfc **4.68** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)						Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage	Polarity		@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
1/L1	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	>999	250	✓	0.45	28.0	N/A	✓	N/A	
1/L2	N/A	N/A	N/A	0.41	N/A	N/A	LIM	>999	>999	250	✓	0.51	28.9	N/A	✓	N/A	
1/L3	N/A	N/A	N/A	0.45	N/A	N/A	LIM	>999	>999	250	✓	0.55	28.5	N/A	✓	N/A	
2/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/L2	N/A	N/A	N/A	0.52	N/A	N/A	LIM	>999	>999	250	✓	0.62	27.9	N/A	✓	N/A	
2/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10070042_57		PTSG Job Ref	ESEIT33020	
DB Reference	DB-FF1-A-Power		DB Location	Cardell A - 01 Communal Riser Cupboard	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A	DB-FFP	7/TP		60947 MCCB	N/A mA
	SPD Type(s)	SPD Indicator	Device Rating	RCD Operating time at IΔn	
	N/A	N/A	100 A Type S RCD	N/A	N/A ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm²)	epc csa (mm²)
1/L1	Ground Floor - Smoke Shaft AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
1/L2	First Floor - Smoke Shaft AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
1/L3	Second Floor - Smoke Shaft AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
2/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L2	First Floor - Fire Shutter	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
2/L3	Second Floor - Fire Shutter	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
3/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L2	Third Floor - Smoke Shaft AOD	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
3/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L2	Third Floor - Fire Shutter	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	O	E&F	2.5	2.5
4/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_57** PTSG Job Ref **ESEIT33020**

DB Reference **DB-FF1-A-Power** DB Location **Cardell A - 01 Communal Riser Cupboard**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **13/08/2025**

Signature 

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.12** Ω Nominal Voltage **400** v Polarity Ipfc **3.82** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)						Measured Zs (Ω)	RCD				Circuit Comments
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage	Polarity		@1Δn (ms)	@51Δn (ms)	Test Button Operation	AFDD Test Button Operation	
1/L1	N/A	N/A	N/A	0.25	N/A	N/A	LIM	>999	>999	250	✓	0.37	28.5	N/A	✓	N/A	
1/L2	N/A	N/A	N/A	0.21	N/A	N/A	LIM	>999	>999	250	✓	0.33	28.9	N/A	✓	N/A	
1/L3	N/A	N/A	N/A	0.27	N/A	N/A	LIM	>999	>999	250	✓	0.39	27.8	N/A	✓	N/A	
2/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/L2	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.42	28.5	N/A	✓	N/A	
2/L3	N/A	N/A	N/A	0.27	N/A	N/A	LIM	>999	>999	250	✓	0.39	28.5	N/A	✓	N/A	
3/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/L2	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.2	N/A	✓	N/A	
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L2	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.42	28.9	N/A	✓	N/A	
4/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_56** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-FF1-A- Lighting** DB Location: **Cardell A - 01 Communal Riser Cupboard**

Distribution Board Comments: **N/A**

Supply From: **DB-FFP** Circuit Number: **7/TP** Over Current Device: **60947** **MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **100** A Type S RCD: **N/A** RCD Operating time at IΔn: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
1/L1	Ground Floor - Stair Lobby Lighting	Radial Circuit	13	0.4	61009	C	10	10	2.185	61009	A	30	10	O	E&F	1.5	1.5
1/L2	First Floor - Stair Lobby Lighting	Radial Circuit	13	0.4	61009	C	10	10	2.185	61009	A	30	10	O	E&F	1.5	1.5
1/L3	Second Floor - Stair Lobby Lighting	Radial Circuit	13	0.4	61009	C	10	10	2.185	61009	A	30	10	O	E&F	1.5	1.5
2/L1	Ground Floor - Busbar Power Supply	Radial Circuit	1	0.4	61009	C	16	10	1.3656	61009	A	30	16	O	E&F	1.5	1.5
2/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L1	Third Floor - Stair Lobby Lighting	Radial Circuit	13	0.4	61009	C	10	10	2.185	61009	A	30	10	O	E&F	1.5	1.5
3/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_56** PTSG Job Ref **ESEIT33020**

DB Reference **DB-FF1-A- Lighting** DB Location **Cardell A - 01 Communal Riser Cupboard**

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

Circuits with connected lamps/control gear

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Tested By **William King** Date **13/08/2025**

Signature

Distribution Board Characteristics

Zs **0.12** Ω Nominal Voltage **400** v Polarity Ipfc **3.82** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
1/L1	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	>999	250	✓	0.42	28.5	N/A	✓	N/A	
1/L2	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.37	26.5	N/A	✓	N/A	
1/L3	N/A	N/A	N/A	0.65	N/A	N/A	LIM	>999	>999	250	✓	0.72	28.6	N/A	✓	N/A	
2/L1	N/A	N/A	N/A	0.37	N/A	N/A	LIM	>999	>999	250	✓	0.43	28.9	N/A	✓	N/A	
2/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/L1	N/A	N/A	N/A	0.56	N/A	N/A	LIM	>999	>999	250	✓	0.63	28.5	N/A	✓	N/A	
3/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10070042_55		PTSG Job Ref	ESEIT33020	
DB Reference	DB-EXT-Power		DB Location	Cardell A - 00 LV Switch Room	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A	MBP/RESI	16/TP	60947	MCCB	N/A mA
	SPD Type(s)	SPD Indicator	Device Rating	Type S RCD	RCD Operating time at IΔn
	N/A	N/A	63 A	N/A	N/A ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/TP	Surge Protection	Radial Circuit	1	5	60898	C	40	10	0.5462	N/A	N/A	N/A	N/A	B	B	16	16
5/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_55** PTSG Job Ref **ESEIT33020**

DB Reference **DB-EXT-Power** DB Location **Cardell A - 00 LV Switch Room**

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

Circuits with connected fixed appliances.

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Tested By Name **William King** Date **13/08/2025**

Signature

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **400** v Polarity Ipfc **7.80** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments				
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation			
1/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
2/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/TP	N/A	N/A	N/A	0.01	N/A	>999	LIM	>999	>999	250	✓	0.06	N/A	N/A	N/A	N/A	N/A	N/A		
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_54** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-EXT-Lighting** DB Location: **Cardell A - 00 LV Switch Room**

Distribution Board Comments: **N/A**

Supply From: **MBP/RESI** Circuit Number: **16/TP** Over Current Device: **60947** **MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **1&2** SPD Indicator: **✓** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at IΔn: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
1/L1	External Lighting	Radial Circuit	N/V	0.4	60898	B	10	10	4.37	N/A	N/A	N/A	N/A	G	E&F	2.5	2.5
1/L2	External Lighting	Radial Circuit	N/V	0.4	60898	B	10	10	4.37	N/A	N/A	N/A	N/A	G	E&F	2.5	2.5
1/L3	External Lighting	Radial Circuit	N/V	0.4	60898	B	10	10	4.37	N/A	N/A	N/A	N/A	G	E&F	2.5	2.5
2/L1	External Lighting	Radial Circuit	N/V	0.4	60898	B	10	10	4.37	N/A	N/A	N/A	N/A	G	E&F	2.5	2.5
2/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_54** PTSG Job Ref **ESEIT33020**

DB Reference **DB-EXT-Lighting** DB Location **Cardell A - 00 LV Switch Room**

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

Circuits with connected lamps/control gear

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Tested By **William King** Date **13/08/2025**

Signature

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **400** v Polarity Ipfc **7.80** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)						Measured Zs (Ω)	RCD				Circuit Comments
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage	Polarity		@1An (ms)	@51An (ms)	Test Button Operation	AFDD Test Button Operation	
1/L1	N/A	N/A	N/A	0.03	N/A	N/A	LIM	>999	>999	250	✓	0.09	N/A	N/A	N/A	N/A	Tested at control contactor
1/L2	N/A	N/A	N/A	0.06	N/A	N/A	LIM	>999	>999	250	✓	0.10	N/A	N/A	N/A	N/A	Tested at control contactor
1/L3	N/A	N/A	N/A	0.04	N/A	N/A	LIM	>999	>999	250	✓	0.10	N/A	N/A	N/A	N/A	
2/L1	N/A	N/A	N/A	0.03	N/A	N/A	LIM	>999	>999	250	✓	0.09	N/A	N/A	N/A	N/A	
2/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_53** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-Creche-Power (UPP Office)** DB Location: **Llansteffan - UPP Office**

Distribution Board Comments: **N/A**

Supply From: **N/V** LIM Over Current Device: **LIM** LIM RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **LIM** A Type S RCD: **N/A** RCD Operating time at IΔn: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
1/L1	Office/Staff Ring Circuit	Ring Final Circuit	8	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
1/L2	Kitchen Ring Circuit	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
1/L3	Reception Ring Circuit	Ring Final Circuit	4	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2/L2	Staff Hand Dryer	Radial Circuit	1	0.4	61009	B	20	10	2.185	61009	A	30	20	A	E&F	4	1.5
2/L3	Quiet Ring Circuit	Ring Final Circuit	N/V	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L1	WC Hand Dryer	Radial Circuit	1	0.4	61009	B	20	10	2.185	61009	A	30	20	A	E&F	4	1.5
3/L2	Hob	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
3/L3	Access Control	Radial Circuit	1	0.4	61009	B	20	10	2.185	61009	A	30	20	A	E&F	2.5	1.5
4/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L2	Kitchen Appliances	Radial Circuit	4	0.4	61009	C	20	10	1.0925	61009	A	30	20	A	E&F	2.5	1.5
4/L3	Access Control	Radial Circuit	1	0.4	61009	B	20	10	2.185	61009	A	30	20	A	E&F	2.5	1.5
5/L1	HRU	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
5/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/L3	Bell TX	Radial Circuit	1	0.4	61009	B	10	10	4.37	61009	A	30	10	A	E&F	1.5	1
6/L1	Disabled Alarm	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
6/L2	Extract Fan	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
6/L3	Extract Fan	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
7/L1	HRU	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
7/L2	Extract Fan	Radial Circuit	1	0.4	61009	B	16	10	2.7312	61009	A	30	16	A	E&F	2.5	1.5
7/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trunking	E. PVC Cables in non-metallic trunking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_53** PTSG Job Ref **ESEIT33020**

DB Reference **DB-Creche-Power (UPP Office)** DB Location **Llansteffan - UPP Office**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **13/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **400** v Polarity Ipfc **6.82** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
1/L1	0.69	0.66	1.32	0.50	N/A	N/A	LIM	>999	>999	250	✓	0.55	28.3	N/A	✓	N/A	
1/L2	0.42	0.40	0.73	0.28	N/A	N/A	LIM	>999	>999	250	✓	0.35	28.1	N/A	✓	N/A	
1/L3	0.92	0.92	1.41	0.61	N/A	N/A	LIM	>999	>999	250	✓	0.65	28.5	N/A	✓	N/A	
2/L1	N/A	N/A	N/A	0.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.55	N/A	N/A	N/A	N/A	
2/L2	N/A	N/A	N/A	0.14	N/A	N/A	LIM	>999	>999	250	✓	0.21	28.3	N/A	✓	N/A	
2/L3	0.27	0.27	0.41	0.17	N/A	N/A	LIM	>999	>999	250	LIM	LIM	28.8	N/A	✓	N/A	
3/L1	N/A	N/A	N/A	0.11	N/A	N/A	LIM	>999	>999	250	✓	0.18	25.9	N/A	✓	N/A	
3/L2	N/A	N/A	N/A	0.07	N/A	N/A	LIM	>999	>999	250	✓	0.14	28.0	N/A	✓	N/A	
3/L3	N/A	N/A	N/A	0.26	N/A	N/A	LIM	>999	>999	250	✓	0.33	28.1	N/A	✓	N/A	
4/L1	N/A	N/A	N/A	0.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.55	N/A	N/A	N/A	N/A	
4/L2	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.37	28.5	N/A	✓	N/A	
4/L3	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	>999	250	✓	0.42	28.9	N/A	✓	N/A	
5/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	25.1	N/A	✓	N/A	No access
5/L2	N/A	N/A	N/A	0.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.55	N/A	N/A	N/A	N/A	
5/L3	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.9	N/A	✓	N/A	
6/L1	N/A	N/A	N/A	0.22	N/A	N/A	LIM	>999	>999	250	✓	0.29	27.7	N/A	✓	N/A	
6/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	28.9	N/A	✓	N/A	
6/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	28.1	N/A	✓	N/A	No access
7/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	28.7	N/A	✓	N/A	
7/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	28.5	N/A	✓	N/A	
7/L3	N/A	N/A	N/A	0.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.55	N/A	N/A	N/A	N/A	
8/TP	N/A	N/A	N/A	0.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.55	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_52** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-Creche-Lighting (UPP Office)** DB Location: **Llansteffan - UPP Office**

Distribution Board Comments: **N/A**

Supply From: **N/V** LIM Over Current Device: **LIM** **LIM** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **LIM** A Type S RCD: **N/A** RCD Operating time at IΔn: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Open Plan / Staff Lighting	Radial Circuit	5	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
1/L2	Office / Kitchen Lighting	Radial Circuit	5	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
1/L3	Reception Lighting	Radial Circuit	3	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
2/L1	Open Plan Lighting	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
2/L2	Air Curtain	Radial Circuit	1	0.4	60898	C	20	10	1.0925	N/A	N/A	N/A	N/A	A	E&F	6	2.5
2/L3	WC Utility Lighting	Radial Circuit	7	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
3/L1	External Light	Radial Circuit	1	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
3/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_52** PTSG Job Ref **ESEIT33020**

DB Reference **DB-Creche-Lighting (UPP Office)** DB Location **Llansteffan - UPP Office**

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

Circuits with connected lamps/control gear

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Name **William King** Date **13/08/2025**

Signature

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **400** v Polarity Ipfc **6.82** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1Δn (ms)	@51Δn (ms)		Test Button Operation	AFDD Test Button Operation
1/L1	N/A	N/A	N/A	0.50	N/A	N/A	LIM	>999	>999	250	✓	0.57	28.5	N/A	✓	N/A	
1/L2	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	>999	250	✓	0.46	28.0	N/A	✓	N/A	
1/L3	N/A	N/A	N/A	0.33	N/A	N/A	LIM	>999	>999	250	✓	0.40	29.8	N/A	✓	N/A	
2/L1	N/A	N/A	N/A	0.46	N/A	N/A	LIM	>999	>999	250	✓	0.53	28.9	N/A	✓	N/A	
2/L2	N/A	N/A	N/A	0.13	N/A	N/A	LIM	>999	>999	250	✓	0.20	N/A	N/A	N/A	N/A	
2/L3	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	>999	250	✓	0.46	28.3	N/A	✓	N/A	
3/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	27.9	N/A	✓	N/A	
3/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_49** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL9-A** DB Location **Cardell A - 04 Kitchen Flat 9**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** 8/L1 Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Standard Room Ring Main 10-8	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L1	Standard Room Ring Main 7-6	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L1	Standard Room Ring Main 3-1	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L1	Standard Room Ring Main 5-4	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L1	Common Room Ring Main 1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L1	Common Room Ring Main 2	Ring Final Circuit	5	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L1	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L1	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L1	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L1	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L1	Lighting Standard Room 7-6	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L1	Lighting Standard Room 3-1	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L1	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_49** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL9-A** DB Location **Cardell A - 04 Kitchen Flat 9**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **230** v Polarity Ipfc **3.32** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Test Voltage	Polarity	Measured Zs (Ω)	RCD			Circuit Comments
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	@1An (ms)				@51An (ms)	Test Button Operation	AFDD Test Button Operation	
1/L1	0.28	0.28	0.45	0.25	N/A	N/A	LIM	>999	>999	250	✓	0.35	28.9	N/A	✓	N/A	
2/L1	0.44	0.45	0.69	0.28	N/A	N/A	LIM	>999	>999	250	✓	0.35	28.3	N/A	✓	N/A	
3/L1	0.30	0.30	0.49	0.20	N/A	N/A	LIM	>999	>999	250	✓	0.27	28.9	N/A	✓	N/A	
4/L1	0.48	0.48	0.73	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.35	28.5	N/A	✓	N/A	
5/L1	0.25	0.24	0.39	0.16	N/A	N/A	LIM	>999	>999	250	✓	0.24	28.1	N/A	✓	N/A	
6/L1	0.29	0.29	0.47	0.19	N/A	N/A	LIM	>999	>999	250	✓	0.27	28.9	N/A	✓	N/A	
7/L1	N/A	N/A	N/A	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.22	28.9	N/A	✓	N/A	
8/L1	N/A	N/A	N/A	0.13	N/A	N/A	LIM	>999	>999	250	✓	0.20	28.5	N/A	✓	N/A	
9/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L1	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.0	N/A	✓	N/A	
12/L1	N/A	N/A	N/A	0.50	N/A	N/A	LIM	>999	>999	250	✓	0.57	28.9	N/A	✓	N/A	
13/L1	N/A	N/A	N/A	0.71	N/A	N/A	LIM	>999	>999	250	✓	0.78	28.3	N/A	✓	N/A	
14/L1	N/A	N/A	N/A	0.41	N/A	N/A	LIM	>999	>999	250	✓	0.48	28.1	N/A	✓	N/A	
15/L1	N/A	N/A	N/A	0.73	N/A	N/A	LIM	>999	>999	250	✓	0.80	27.5	N/A	✓	N/A	
16/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_46** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-CL8-A** DB Location: **Cardell A - 03 Kitchen Flat 8**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **7/L3** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L3	Standard Room Ring Main 10-8	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L3	Standard Room Ring Main 7-5	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L3	Standard Room Ring Main 2-1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L3	Standard Room Ring Main 4-3	Ring Final Circuit	4	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L3	Common Room Room Ring Main 1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L3	Common Room Room Ring Main 2	Ring Final Circuit	5	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L3	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L3	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L3	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L3	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L3	Lighting Standard Room 7-5	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L3	Lighting Standard Room 2-1	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L3	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_46** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL8-A** DB Location **Cardell A - 03 Kitchen Flat 8**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **230** v Polarity Ipfc **3.30** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1 Δ n (ms)	@5 Δ n (ms)	Test Button Operation		AFDD Test Button Operation
1/L3	0.30	0.32	0.52	0.23	N/A	N/A	LIM	>999	>999	250	✓	0.30	28.9	N/A	✓	N/A	
2/L3	0.41	0.41	0.68	0.27	N/A	N/A	LIM	>999	>999	250	✓	0.34	28.9	N/A	✓	N/A	
3/L3	0.22	0.22	0.35	0.14	N/A	N/A	LIM	>999	>999	250	✓	0.21	28.5	N/A	✓	N/A	
4/L3	0.50	0.48	0.73	0.31	N/A	N/A	LIM	>999	>999	250	✓	0.35	28.5	N/A	✓	N/A	
5/L3	0.21	0.20	0.34	0.13	N/A	N/A	LIM	>999	>999	250	✓	0.20	28.5	N/A	✓	N/A	
6/L3	0.27	0.27	0.45	0.18	N/A	N/A	LIM	>999	>999	250	✓	0.25	28.5	N/A	✓	N/A	
7/L3	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.17	25.9	N/A	✓	N/A	
8/L3	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>999	>999	250	✓	0.19	28.3	N/A	✓	N/A	
9/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L3	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	>999	250	✓	0.46	28.9	N/A	✓	N/A	
12/L3	N/A	N/A	N/A	0.44	N/A	N/A	LIM	>999	>999	250	✓	0.51	28.9	N/A	✓	N/A	
13/L3	N/A	N/A	N/A	0.68	N/A	N/A	LIM	>999	>999	250	✓	0.75	28.9	N/A	✓	N/A	
14/L3	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.9	N/A	✓	N/A	
15/L3	N/A	N/A	N/A	0.65	N/A	N/A	LIM	>999	>999	250	✓	0.72	28.1	N/A	✓	N/A	
16/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10070042_43	PTSG Job Ref	ESEIT33020
DB Reference	DB-CL7-A	DB Location	Cardell A - 03 Kitchen Flat 7
Distribution Board Comments	N/A		
Supply From	Rising Busbar (Core A)	Circuit Number	6/L2
Over Current Device	60947	MCCB	
RCD Operating Current	N/A	mA	
SPD Type(s)	N/A	SPD Indicator	N/A
Device Rating	63	A	Type S RCD
RCD Operating time at I_{Δn}	N/A	ms	

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L2	Standard Room Ring Main 10-8	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L2	Standard Room Ring Main 7-6	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L2	Standard Room Ring Main 3-1	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L2	Standard Room Ring Main 5-4	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L2	Common Room Ring Main 1	Ring Final Circuit	7	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L2	Common Room Ring Main 2	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L2	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L2	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L2	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L2	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L2	Lighting Standard Room 7-6	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L2	Lighting Standard Room 3-1	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L2	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_43** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL7-A** DB Location **Cardell A - 03 Kitchen Flat 7**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.08** Ω Nominal Voltage **230** v Polarity Ipfc **2.90** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
1/L2	0.25	0.25	0.39	0.16	N/A	N/A	LIM	>999	>999	250	✓	0.25	28.5	N/A	✓	N/A	
2/L2	0.43	0.43	0.69	0.28	N/A	N/A	LIM	>999	>999	250	✓	0.37	22.9	N/A	✓	N/A	
3/L2	0.22	0.22	0.36	0.14	N/A	N/A	LIM	>999	>999	250	✓	0.21	28.5	N/A	✓	N/A	
4/L2	0.41	0.41	0.67	0.27	N/A	N/A	LIM	>999	>999	250	✓	0.33	28.3	N/A	✓	N/A	
5/L2	0.21	0.21	0.34	0.14	N/A	N/A	LIM	>999	>999	250	✓	0.23	28.1	N/A	✓	N/A	
6/L2	0.29	0.29	0.47	0.19	N/A	N/A	LIM	>999	>999	250	✓	0.25	28.5	N/A	✓	N/A	
7/L2	N/A	N/A	N/A	0.13	N/A	N/A	LIM	>999	>999	250	✓	0.20	28.9	N/A	✓	N/A	
8/L2	N/A	N/A	N/A	0.14	N/A	N/A	LIM	>999	>999	250	✓	0.21	28.8	N/A	✓	N/A	
9/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L2	N/A	N/A	N/A	0.45	N/A	N/A	LIM	>999	>999	250	✓	0.81	28.5	N/A	✓	N/A	
12/L2	N/A	N/A	N/A	0.46	N/A	N/A	LIM	>999	>999	250	✓	0.53	28.1	N/A	✓	N/A	
13/L2	N/A	N/A	N/A	0.69	N/A	N/A	LIM	>999	>999	250	✓	0.76	28.5	N/A	✓	N/A	
14/L2	N/A	N/A	N/A	0.49	N/A	N/A	LIM	>999	>999	250	✓	0.55	28.9	N/A	✓	N/A	
15/L2	N/A	N/A	N/A	0.70	N/A	N/A	LIM	>999	>999	250	✓	0.77	28.0	N/A	✓	N/A	
16/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_40** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL6-A** DB Location **Cardell A - 02 Kitchen Flat 6**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **5/L1** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Standard Room Ring Main 7-5	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L1	Standard Room Ring Main 10-8	Ring Final Circuit	8	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L1	Standard Room Ring Main 2-1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L1	Standard Room Ring Main 4-3	Ring Final Circuit	4	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L1	Common Room Room Ring Main 1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L1	Common Room Room Ring Main 2	Ring Final Circuit	7	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L1	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L1	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L1	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L1	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L1	Lighting Standard Room 7-5	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L1	Lighting Standard Room 2-1	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L1	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods: A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_40** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL6-A** DB Location **Cardell A - 02 Kitchen Flat 6**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **230** v Polarity Ipfc **3.35** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)		Test Button Operation
1/L1	0.50	0.50	0.87	0.34	N/A	N/A	LIM	>999	>999	250	✓	0.39	28.7	N/A	✓	N/A
2/L1	0.30	0.29	0.55	0.21	N/A	N/A	LIM	>999	>999	250	✓	0.28	28.6	N/A	✓	N/A
3/L1	0.25	0.25	0.43	0.17	N/A	N/A	LIM	>999	>999	250	✓	0.25	30.9	N/A	✓	N/A
4/L1	0.46	0.46	0.73	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.35	28.6	N/A	✓	N/A
5/L1	0.30	0.30	0.47	0.19	N/A	N/A	LIM	>999	>999	250	✓	0.26	28.1	N/A	✓	N/A
6/L1	0.31	0.30	0.49	0.20	N/A	N/A	LIM	>999	>999	250	✓	0.29	28.7	N/A	✓	N/A
7/L1	N/A	N/A	N/A	0.13	N/A	N/A	LIM	>999	>999	250	✓	0.20	28.9	N/A	✓	N/A
8/L1	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.17	28.5	N/A	✓	N/A
9/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L1	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	>999	250	✓	0.46	27.9	N/A	✓	N/A
12/L1	N/A	N/A	N/A	0.45	N/A	N/A	LIM	>999	>999	250	✓	0.52	28.8	N/A	✓	N/A
13/L1	N/A	N/A	N/A	0.69	N/A	N/A	LIM	>999	>999	250	✓	0.76	28.7	N/A	✓	N/A
14/L1	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.9	N/A	✓	N/A
15/L1	N/A	N/A	N/A	0.61	N/A	N/A	LIM	>999	>999	250	✓	0.68	28.5	N/A	✓	N/A
16/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number: **ESEITTC10070042_37** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-CL5-A** DB Location: **Cardell A - 02 Kitchen Flat 5**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **4/L3** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L3	Standard Room Ring Main 10-8	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L3	Standard Room Ring Main 7-6	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L3	Standard Room Ring Main 5-4	Ring Final Circuit	8	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L3	Standard Room Ring Main 1-3	Ring Final Circuit	12	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L3	Common Room Ring Main 1	Ring Final Circuit	7	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L3	Common Room Ring Main 2	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L3	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L3	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L3	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L3	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L3	Lighting Standard Room 7-6	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L3	Lighting Standard Room 3-1	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L3	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trunking	E. PVC Cables in non-metallic trunking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trunking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_37** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL5-A** DB Location **Cardell A - 02 Kitchen Flat 5**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **230** v Polarity Ipfc **3.39** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)		Test Button Operation	AFDD Test Button Operation
1/L3	0.24	0.24	0.37	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.22	28.0	N/A	✓	N/A	
2/L3	0.41	0.42	0.68	0.27	N/A	N/A	LIM	>999	>999	250	✓	0.35	28.9	N/A	✓	N/A	
3/L3	0.48	0.48	0.79	0.32	N/A	N/A	LIM	>999	>999	250	✓	0.39	24.9	N/A	✓	N/A	
4/L3	0.25	0.25	0.42	0.17	N/A	N/A	LIM	>999	>999	250	✓	0.24	28.0	N/A	✓	N/A	
5/L3	0.29	0.28	0.47	0.19	N/A	N/A	LIM	>999	>999	250	✓	0.26	28.9	N/A	✓	N/A	
6/L3	0.25	0.26	0.40	0.16	N/A	N/A	LIM	>999	>999	250	✓	0.23	28.5	N/A	✓	N/A	
7/L3	N/A	N/A	N/A	0.09	N/A	N/A	LIM	>999	>999	250	✓	0.16	22.9	N/A	✓	N/A	
8/L3	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>999	>999	250	✓	0.19	27.8	N/A	✓	N/A	
9/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L3	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	>999	250	✓	0.42	28.6	N/A	✓	N/A	
12/L3	N/A	N/A	N/A	0.44	N/A	N/A	LIM	>999	>999	250	✓	0.51	28.5	N/A	✓	N/A	
13/L3	N/A	N/A	N/A	0.66	N/A	N/A	LIM	>999	>999	250	✓	0.73	28.4	N/A	✓	N/A	
14/L3	N/A	N/A	N/A	0.43	N/A	N/A	LIM	>999	>999	250	✓	0.50	28.1	N/A	✓	N/A	
15/L3	N/A	N/A	N/A	0.79	N/A	N/A	LIM	>999	>999	250	✓	0.86	28.6	N/A	✓	N/A	
16/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10070042_34		PTSG Job Ref	ESEIT33020							
DB Reference	DB-CL4-A		DB Location	Cardell A - 01 Kitchen Flat 4							
Distribution Board Comments	N/A		Supply From	Rising Busbar (Core A) 3/L2	Over Current Device	60947 MCCB	RCD Operating Current	N/A	mA		
	SPD Type(s)	N/A	SPD Indicator	N/A	Device Rating	63 A	Type S RCD	N/A	RCD Operating time at I_{Δn}	N/A	ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Standard Room Ring Main 10-8	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L1	Standard Room Ring Main 7-5	Ring Final Circuit	8	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L1	Standard Room Ring Main 2-1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L1	Standard Room Ring Main 4-3	Ring Final Circuit	4	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L1	Common Room Room Ring Main 1	Ring Final Circuit	5	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L1	Common Room Room Ring Main 1	Ring Final Circuit	7	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L1	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L1	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L1	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L1	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L1	Lighting Standard Room 7-5	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L1	Lighting Standard Room 2-1	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L1	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_34** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL4-A** DB Location **Cardell A - 01 Kitchen Flat 4**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **230** v Polarity Ipfc **3.80** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Measured Zs (Ω)	RCD				Circuit Comments	
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
1/L1	0.24	0.24	0.40	0.16	N/A	N/A	LIM	>999	>999	250	✓	0.25	28.7	N/A	✓	N/A	
2/L1	0.44	0.44	0.77	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.37	28.9	N/A	✓	N/A	
3/L1	0.20	0.20	0.36	0.14	N/A	N/A	LIM	>999	>999	250	✓	0.22	28.9	N/A	✓	N/A	
4/L1	0.40	0.40	0.66	0.26	N/A	N/A	LIM	>999	>999	250	✓	0.33	28.3	N/A	✓	N/A	
5/L1	0.30	0.30	0.47	0.20	N/A	N/A	LIM	>999	>999	250	✓	0.29	27.0	N/A	✓	N/A	
6/L1	0.32	0.32	0.55	0.22	N/A	N/A	LIM	>999	>999	250	✓	0.30	28.9	N/A	✓	N/A	
7/L1	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.17	29.0	N/A	✓	N/A	
8/L1	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>999	>999	250	✓	0.19	28.5	N/A	✓	N/A	
9/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L1	N/A	N/A	N/A	0.37	N/A	N/A	LIM	>999	>999	250	✓	0.44	28.9	N/A	✓	N/A	
12/L1	N/A	N/A	N/A	0.49	N/A	N/A	LIM	>999	>999	250	✓	0.56	28.5	N/A	✓	N/A	
13/L1	N/A	N/A	N/A	0.71	N/A	N/A	LIM	>999	>999	250	✓	0.77	30.0	N/A	✓	N/A	
14/L1	N/A	N/A	N/A	0.47	N/A	N/A	LIM	>999	>999	250	✓	0.54	28.6	N/A	✓	N/A	
15/L1	N/A	N/A	N/A	0.66	N/A	N/A	LIM	>999	>999	250	✓	0.73	25.5	N/A	✓	N/A	
16/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_31** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-CL3-A** DB Location: **Cardell A - 01 Kitchen Flat 3**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **2/L1** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Standard Room Ring Main 8-7	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L1	Standard Room Ring Main 6-5	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L1	Standard Room Ring Main 2-1	Ring Final Circuit	8	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L1	Standard Room Ring Main 4-3	Ring Final Circuit	8	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L1	Common Room Ring Main 1	Ring Final Circuit	7	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L1	Common Room Ring Main 2	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L1	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L1	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L1	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L1	Lighting Standard Room 8-7	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L1	Lighting Standard Room 6-5	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L1	Lighting Standard Room 2-1	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L1	Lighting Standard Room 4-3	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trunking	E. PVC Cables in non-metallic trunking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trunking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_31** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL3-A** DB Location **Cardell A - 01 Kitchen Flat 3**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **230** v Polarity Ipfc **3.85** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)		Test Button Operation	AFDD Test Button Operation
1/L1	0.28	0.28	0.41	0.17	N/A	N/A	LIM	>999	>999	250	✓	0.23	28.3	N/A	✓	N/A	
2/L1	0.34	0.34	0.58	0.23	N/A	N/A	LIM	>999	>999	250	✓	0.29	27.5	N/A	✓	N/A	
3/L1	0.42	0.42	0.73	0.28	N/A	N/A	LIM	>999	>999	250	✓	0.36	24.9	N/A	✓	N/A	
4/L1	0.25	0.24	0.39	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.22	28.8	N/A	✓	N/A	
5/L1	0.22	0.21	0.36	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.21	28.9	N/A	✓	N/A	
6/L1	0.28	0.28	0.42	0.17	N/A	N/A	LIM	>999	>999	250	✓	0.25	24.9	N/A	✓	N/A	
7/L1	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.16	28.9	N/A	✓	N/A	
8/L1	N/A	N/A	N/A	0.09	N/A	N/A	LIM	>999	>999	250	✓	0.15	27.8	N/A	✓	N/A	
9/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L1	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	>999	250	✓	0.41	29.0	N/A	✓	N/A	
12/L1	N/A	N/A	N/A	0.42	N/A	N/A	LIM	>999	>999	250	✓	0.48	27.1	N/A	✓	N/A	
13/L1	N/A	N/A	N/A	0.59	N/A	N/A	LIM	>999	>999	250	✓	0.65	28.5	N/A	✓	N/A	
14/L1	N/A	N/A	N/A	0.41	N/A	N/A	LIM	>999	>999	250	✓	0.46	28.7	N/A	✓	N/A	
15/L1	N/A	N/A	N/A	0.66	N/A	N/A	LIM	>999	>999	250	✓	0.72	28.9	N/A	✓	N/A	
16/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10070042_28		PTSG Job Ref	ESEIT33020	
DB Reference	DB-CL2-A		DB Location	Cardell A - GF Kitchen Flat 2	
Distribution Board Comments	Supply From	DB Reference	Circuit Number	Over Current Device	RCD Operating Current
N/A	MPB/RESI	5/L2		60947 MCCB	N/A mA
	SPD Type(s)	SPD Indicator	Device Rating	Type S RCD	RCD Operating time at IΔn
	N/A	N/A	63 A	N/A	N/A ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm²)	epc csa (mm²)
1/L2	Standard Room Ring Main 10-9	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L2	Standard / WCA Room Ring Main 8-7	Ring Final Circuit	8	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L2	Standard Room Ring Main 6-5	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L2	Standard Room Ring Main 4-3	Ring Final Circuit	4	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L2	Standard Room Ring Main 2-1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L2	Common Room Room Ring Main 1	Ring Final Circuit	7	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L2	Common Room Room Ring Main 2	Ring Final Circuit	7	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
8/L2	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L2	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
10/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L2	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L2	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L2	Lighting Standard Room 7-5	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L2	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L2	Lighting Standard Room 2-1	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_28** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL2-A** DB Location **Cardell A - GF Kitchen Flat 2**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **230** v Polarity Ipfc **3.10** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)		Test Button Operation	AFDD Test Button Operation
1/L2	0.25	0.25	0.41	0.16	N/A	N/A	LIM	>999	>999	250	✓	0.23	28.8	N/A	✓	N/A	
2/L2	0.40	0.40	0.68	0.27	N/A	N/A	LIM	>999	>999	250	✓	0.34	28.2	N/A	✓	N/A	
3/L2	0.50	0.50	0.87	0.34	N/A	N/A	LIM	>999	>999	250	✓	0.40	28.9	N/A	✓	N/A	
4/L2	0.40	0.39	0.69	0.27	N/A	N/A	LIM	>999	>999	250	✓	0.34	27.7	N/A	✓	N/A	
5/L2	0.31	0.31	0.58	0.22	N/A	N/A	LIM	>999	>999	250	✓	0.29	28.5	N/A	✓	N/A	
6/L2	0.25	0.23	0.38	0.16	N/A	N/A	LIM	>999	>999	250	✓	0.23	28.5	N/A	✓	N/A	
7/L2	0.33	0.33	0.55	0.22	N/A	N/A	LIM	>999	>999	250	✓	0.30	28.9	N/A	✓	N/A	
8/L2	N/A	N/A	N/A	0.08	N/A	N/A	LIM	>999	>999	250	✓	0.16	28.5	N/A	✓	N/A	
9/L2	N/A	N/A	N/A	0.11	N/A	N/A	LIM	>999	>999	250	✓	0.18	27.5	N/A	✓	N/A	
10/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L2	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.9	N/A	✓	N/A	
12/L2	N/A	N/A	N/A	0.50	N/A	N/A	LIM	>999	>999	250	✓	0.57	28.5	N/A	✓	N/A	
13/L2	N/A	N/A	N/A	0.60	N/A	N/A	LIM	>999	>999	250	✓	0.67	28.1	N/A	✓	N/A	
14/L2	N/A	N/A	N/A	0.63	N/A	N/A	LIM	>999	>999	250	✓	0.70	25.6	N/A	✓	N/A	
15/L2	N/A	N/A	N/A	0.49	N/A	N/A	LIM	>999	>999	250	✓	0.56	27.7	N/A	✓	N/A	
16/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number ESEITTC10070042_25 **PTSG Job Ref** ESEIT33020
DB Reference DB-CL1-A **DB Location** Cardell A - GF Kitchen Flat 1
Distribution Board Comments N/A **Supply From** MPB/RESI **Circuit Number** 5/L1 **Over Current Device** 60947 **MCCB** **RCD Operating Current** N/A **mA**
SPD Type(s) N/A **SPD Indicator** N/A **Device Rating** 63 **A** **Type S RCD** N/A **RCD Operating time at IΔn** N/A **ms**

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
1/L1	Standard Room Ring Main 1-2	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L1	Standard Room Ring Main 3-4	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L1	Standard / WCA Room Ring Main 5-7	Ring Final Circuit	10	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L1	Common Room Ring Main 1	Ring Final Circuit	7	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L1	Common Room Ring Main 2	Ring Final Circuit	5	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L1	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
7/L1	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L1	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L1	Lighting Standard Room 1-2	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L1	Lighting Standard Room 3-4	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L1	Lighting Standard Room 5-7	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_25** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL1-A** DB Location **Cardell A - GF Kitchen Flat 1**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.08** Ω Nominal Voltage **230** v Polarity Ipfc **2.95** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD				Circuit Comments	
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
1/L1	0.22	0.21	0.37	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.23	28.9	N/A	✓	N/A	
2/L1	0.34	0.33	0.55	0.23	N/A	N/A	LIM	>999	>999	250	✓	0.31	28.9	N/A	✓	N/A	
3/L1	0.36	0.36	0.53	0.22	N/A	N/A	LIM	>999	>999	250	✓	0.30	28.3	N/A	✓	N/A	
4/L1	0.20	0.28	0.35	0.14	N/A	N/A	LIM	>999	>999	250	✓	0.21	28.5	N/A	✓	N/A	
5/L1	0.24	0.24	0.38	0.16	N/A	N/A	LIM	>999	>999	250	✓	0.24	27.5	N/A	✓	N/A	
6/L1	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>999	>999	250	✓	0.20	28.1	N/A	✓	N/A	
7/L1	N/A	N/A	N/A	0.11	N/A	N/A	LIM	>999	>999	250	✓	0.19	28.8	N/A	✓	N/A	
8/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L1	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.38	28.9	N/A	✓	N/A	
12/L1	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.38	27.0	N/A	✓	N/A	
13/L1	N/A	N/A	N/A	0.44	N/A	N/A	LIM	>999	>999	250	✓	0.52	28.8	N/A	✓	N/A	
14/L1	N/A	N/A	N/A	0.50	N/A	N/A	LIM	>999	>999	250	✓	0.58	27.7	N/A	✓	N/A	
15/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
16/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number	ESEITTC10070042_21		PTSG Job Ref	ESEIT33020	
DB Reference	DB-CL15-A		DB Location	Cardell A - 07 Kitchen Flat 15	
Distribution Board Comments	DB Reference	Circuit Number	Supply From	Over Current Device	RCD Operating Current
N/A	Rising Busbar (Core A)	16/L1	60947	MCCB	N/A mA
SPD Type(s)	SPD Indicator	Device Rating	Type S RCD	RCD Operating time at I_{Δn}	
N/A	N/A	63 A	N/A	N/A ms	

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Standard Room Ring Main 10, 1, 2	Ring Final Circuit	15	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L1	Standard Room Ring Main 4-3	Ring Final Circuit	10	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L1	Standard Room Ring Main 7-5	Ring Final Circuit	15	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L1	Standard Room Ring Main 9-8	Ring Final Circuit	10	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L1	Common Room Room Ring Main 1	Ring Final Circuit	5	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L1	Common Room Room Ring Main 2	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L1	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L1	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L1	Lighting Common Room	Radial Circuit	9	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L1	Lighting Standard Room 10, 1, 2	Radial Circuit	15	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L1	Lighting Standard Room 4-3	Radial Circuit	10	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L1	Lighting Standard Room 7-5	Radial Circuit	15	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L1	Lighting Standard Room 9-8	Radial Circuit	10	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_21** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL15-A** DB Location **Cardell A - 07 Kitchen Flat 15**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **13/08/2025**

Signature 

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.08** Ω Nominal Voltage **230** v Polarity Ipfc **2.93** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
1/L1	0.44	0.45	0.78	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.38	28.5	N/A	✓	N/A	
2/L1	0.55	0.55	0.90	0.36	N/A	N/A	LIM	>999	>999	250	✓	0.42	28.6	N/A	✓	N/A	
3/L1	0.71	0.70	1.32	0.50	N/A	N/A	LIM	>999	>999	250	✓	0.55	28.9	N/A	✓	N/A	
4/L1	0.78	0.78	1.42	0.55	N/A	N/A	LIM	>999	>999	250	✓	0.63	28.5	N/A	✓	N/A	
5/L1	0.31	0.31	0.52	0.21	N/A	N/A	LIM	>999	>999	250	✓	0.29	28.7	N/A	✓	N/A	
6/L1	0.23	0.23	0.39	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.23	28.9	N/A	✓	N/A	
7/L1	N/A	N/A	N/A	0.11	N/A	N/A	LIM	>999	>999	250	✓	0.19	25.5	N/A	✓	N/A	
8/L1	N/A	N/A	N/A	0.13	N/A	N/A	LIM	>999	>999	250	✓	0.21	28.6	N/A	✓	N/A	
9/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L1	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.9	N/A	✓	N/A	
12/L1	N/A	N/A	N/A	0.59	N/A	N/A	LIM	>999	>999	250	✓	0.67	28.1	N/A	✓	N/A	
13/L1	N/A	N/A	N/A	0.65	N/A	N/A	LIM	>999	>999	250	✓	0.73	22.9	N/A	✓	N/A	
14/L1	N/A	N/A	N/A	0.92	N/A	N/A	LIM	>999	>999	250	✓	0.99	28.5	N/A	✓	N/A	
15/L1	N/A	N/A	N/A	0.98	N/A	N/A	LIM	>999	>999	250	✓	1.06	28.9	N/A	✓	N/A	
16/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_18** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL14-A** DB Location **Cardell A - 06 Kitchen Flat 14**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **14/L3** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L3	Standard Room Ring Main 10-8	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L3	Standard Room Ring Main 7-5	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L3	Standard Room Ring Main 2-1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L3	Standard Room Ring Main 4-3	Ring Final Circuit	4	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L3	Common Room Room Ring Main 1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L3	Common Room Room Ring Main 2	Ring Final Circuit	5	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L3	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L3	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L3	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L3	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L3	Lighting Standard Room 7-5	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L3	Lighting Standard Room 2-1	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L3	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods: A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_18** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL14-A** DB Location **Cardell A - 06 Kitchen Flat 14**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature 

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **230** v Polarity Ipfc **3.25** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1 Δ n (ms)	@51 Δ n (ms)		Test Button Operation
1/L3	0.30	0.30	0.55	0.21	N/A	N/A	LIM	>999	>999	250	✓	0.28	28.7	N/A	✓	N/A
2/L3	0.43	0.43	0.78	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.37	28.5	N/A	✓	N/A
3/L3	0.28	0.28	0.41	0.17	N/A	N/A	LIM	>999	>999	250	✓	0.25	28.6	N/A	✓	N/A
4/L3	0.46	0.46	0.72	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.39	25.9	N/A	✓	N/A
5/L3	0.25	0.25	0.39	0.16	N/A	N/A	LIM	>999	>999	250	✓	0.23	28.5	N/A	✓	N/A
6/L3	0.30	0.30	0.54	0.21	N/A	N/A	LIM	>999	>999	250	✓	0.28	28.9	N/A	✓	N/A
7/L3	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>999	>999	250	✓	0.19	28.1	N/A	✓	N/A
8/L3	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.17	28.9	N/A	✓	N/A
9/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L3	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	>999	250	✓	0.42	23.3	N/A	✓	N/A
12/L3	N/A	N/A	N/A	0.41	N/A	N/A	LIM	>999	>999	250	✓	0.48	28.9	N/A	✓	N/A
13/L3	N/A	N/A	N/A	0.70	N/A	N/A	LIM	>999	>999	250	✓	0.77	28.1	N/A	✓	N/A
14/L3	N/A	N/A	N/A	0.45	N/A	N/A	LIM	>999	>999	250	✓	0.52	28.9	N/A	✓	N/A
15/L3	N/A	N/A	N/A	0.68	N/A	N/A	LIM	>999	>999	250	✓	0.75	28.1	N/A	✓	N/A
16/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number	ESEITTC10070042_15		PTSG Job Ref	ESEIT33020	
DB Reference	DB-CL13-A		DB Location	Cardell A - 06 Kitchen Flat 13	
Distribution Board Comments	DB Reference	Circuit Number	Supply From	Over Current Device	RCD Operating Current
N/A		13/L2	Rising Busbar (Core A)	60947 MCCB	N/A mA
SPD Type(s)	SPD Indicator	Device Rating	Type S RCD	RCD Operating time at I_{Δn}	
N/A	N/A	63 A	N/A	N/A ms	

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L2	Standard Room Ring Main 10-8	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L2	Standard Room Ring Main 7-6	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L2	Standard Room Ring Main 3-1	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L2	Standard Room Ring Main 5-4	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L2	Common Room Ring Main 1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L2	Common Room Ring Main 2	Ring Final Circuit	5	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L2	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L2	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L2	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L2	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L2	Lighting Standard Room 7-6	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L2	Lighting Standard Room 3-1	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L2	Lighting Standard Room 5-4	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_15** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL13-A** DB Location **Cardell A - 06 Kitchen Flat 13**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **13/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.08** Ω Nominal Voltage **230** v Polarity Ipfc **2.96** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD				Circuit Comments
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1 Δ n (ms)	@5 Δ n (ms)	Test Button Operation	
1/L2	0.26	0.26	0.40	0.17	N/A	N/A	LIM	>999	>999	250	✓	0.25	28.9	N/A	✓	N/A
2/L2	0.44	0.44	0.78	0.31	N/A	N/A	LIM	>999	>999	250	✓	0.41	28.9	N/A	✓	N/A
3/L2	0.30	0.31	0.53	0.21	N/A	N/A	LIM	>999	>999	250	✓	0.30	28.5	N/A	✓	N/A
4/L2	0.48	0.49	0.86	0.33	N/A	N/A	LIM	>999	>999	250	✓	0.41	28.1	N/A	✓	N/A
5/L2	0.28	0.28	0.49	0.19	N/A	N/A	LIM	>999	>999	250	✓	0.27	28.0	N/A	✓	N/A
6/L2	0.33	0.32	0.56	0.22	N/A	N/A	LIM	>999	>999	250	✓	0.30	28.5	N/A	✓	N/A
7/L2	N/A	N/A	N/A	0.11	N/A	N/A	LIM	>999	>999	250	✓	0.19	25.9	N/A	✓	N/A
8/L2	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.18	28.9	N/A	✓	N/A
9/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L2	N/A	N/A	N/A	0.39	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.5	N/A	✓	N/A
12/L2	N/A	N/A	N/A	0.42	N/A	N/A	LIM	>999	>999	250	✓	0.50	28.6	N/A	✓	N/A
13/L2	N/A	N/A	N/A	0.70	N/A	N/A	LIM	>999	>999	250	✓	0.78	28.9	N/A	✓	N/A
14/L2	N/A	N/A	N/A	0.43	N/A	N/A	LIM	>999	>999	250	✓	0.51	28.0	N/A	✓	N/A
15/L2	N/A	N/A	N/A	0.62	N/A	N/A	LIM	>999	>999	250	✓	0.70	28.0	N/A	✓	N/A
16/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Circuit Details



Reference Number **ESEITTC10070042_12** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL12-A** DB Location **Cardell A - 05 Kitchen Flat 12**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **12/L1** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Standard Room Ring Main 10-8	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L1	Standard Room Ring Main 7-5	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L1	Standard Room Ring Main 2-1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L1	Standard Room Ring Main 4-3	Ring Final Circuit	4	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L1	Common Room Room Ring Main 1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L1	Common Room Room Ring Main 2	Ring Final Circuit	5	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L1	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L1	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L1	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L1	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L1	Lighting Standard Room 7-5	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L1	Lighting Standard Room 2-1	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L1	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L1	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods: A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_12** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL12-A** DB Location **Cardell A - 05 Kitchen Flat 12**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature 

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **230** v Polarity Ipfc **3.30** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
1/L1	0.30	0.30	0.48	0.19	N/A	N/A	LIM	>999	>999	250	✓	0.26	28.5	N/A	✓	N/A	
2/L1	0.46	0.46	0.73	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.39	28.7	N/A	✓	N/A	
3/L1	0.25	0.25	0.43	0.17	N/A	N/A	LIM	>999	>999	250	✓	0.24	28.3	N/A	✓	N/A	
4/L1	0.47	0.47	0.82	0.32	N/A	N/A	LIM	>999	>999	250	✓	0.37	25.8	N/A	✓	N/A	
5/L1	0.21	0.21	0.39	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.22	28.0	N/A	✓	N/A	
6/L1	0.28	0.28	0.42	0.18	N/A	N/A	LIM	>999	>999	250	✓	0.25	28.7	N/A	✓	N/A	
7/L1	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.17	28.0	N/A	✓	N/A	
8/L1	N/A	N/A	N/A	0.11	N/A	N/A	LIM	>999	>999	250	✓	0.18	27.7	N/A	✓	N/A	
9/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L1	N/A	N/A	N/A	0.44	N/A	N/A	LIM	>999	>999	250	✓	0.51	27.8	N/A	✓	N/A	
12/L1	N/A	N/A	N/A	0.49	N/A	N/A	LIM	>999	>999	250	✓	0.56	28.3	N/A	✓	N/A	
13/L1	N/A	N/A	N/A	0.70	N/A	N/A	LIM	>999	>999	250	✓	0.77	28.0	N/A	✓	N/A	
14/L1	N/A	N/A	N/A	0.43	N/A	N/A	LIM	>999	>999	250	✓	0.50	28.1	N/A	✓	N/A	
15/L1	N/A	N/A	N/A	0.66	N/A	N/A	LIM	>999	>999	250	✓	0.73	28.7	N/A	✓	N/A	
16/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_9** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-CL11-A** DB Location: **Cardell A - 05 Kitchen Flat 11**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **11/L3** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L3	Standard Room Ring Main 10-8	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L3	Standard Room Ring Main 7-6	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L3	Standard Room Ring Main 3-1	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L3	Standard Room Ring Main 5-4	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L3	Common Room Ring Main 1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L3	Common Room Ring Main 2	Ring Final Circuit	5	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L3	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L3	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L3	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L3	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L3	Lighting Standard Room 7-6	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L3	Lighting Standard Room 3-1	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L3	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_9** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL11-A** DB Location **Cardell A - 05 Kitchen Flat 11**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.08** Ω Nominal Voltage **230** v Polarity Ipfc **2.92** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@1An (ms)	@51An (ms)		Test Button Operation	AFDD Test Button Operation
1/L3	0.30	0.30	0.48	0.20	N/A	N/A	LIM	>999	>999	250	✓	0.27	28.7	N/A	✓	N/A	
2/L3	0.45	0.45	0.71	0.29	N/A	N/A	LIM	>999	>999	250	✓	0.35	29.0	N/A	✓	N/A	
3/L3	0.24	0.24	0.37	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.22	28.5	N/A	✓	N/A	
4/L3	0.42	0.42	0.69	0.28	N/A	N/A	LIM	>999	>999	250	✓	0.35	25.9	N/A	✓	N/A	
5/L3	0.21	0.21	0.35	0.14	N/A	N/A	LIM	>999	>999	250	✓	0.21	28.0	N/A	✓	N/A	
6/L3	0.29	0.29	0.48	0.19	N/A	N/A	LIM	>999	>999	250	✓	0.26	28.1	N/A	✓	N/A	
7/L3	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.17	27.8	N/A	✓	N/A	
8/L3	N/A	N/A	N/A	0.13	N/A	N/A	LIM	>999	>999	250	✓	0.20	28.9	N/A	✓	N/A	
9/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L3	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.0	N/A	✓	N/A	
12/L3	N/A	N/A	N/A	0.48	N/A	N/A	LIM	>999	>999	250	✓	0.55	29.0	N/A	✓	N/A	
13/L3	N/A	N/A	N/A	0.71	N/A	N/A	LIM	>999	>999	250	✓	0.78	28.9	N/A	✓	N/A	
14/L3	N/A	N/A	N/A	0.55	N/A	N/A	LIM	>999	>999	250	✓	0.63	28.6	N/A	✓	N/A	
15/L3	N/A	N/A	N/A	0.75	N/A	N/A	LIM	>999	>999	250	✓	0.82	28.3	N/A	✓	N/A	
16/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_6** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB-CL10-A** DB Location: **Cardell A - 04 Kitchen Flat 10**

Distribution Board Comments: **N/A**

Supply From: **Rising Busbar (Core A)** Circuit Number: **9/L2** Over Current Device: **60947 MCCB** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **63** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Z _s (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L2	Standard Room Ring Main 10-8	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
2/L2	Standard Room Ring Main 7-5	Ring Final Circuit	9	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
3/L2	Standard Room Ring Main 2-1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
4/L2	Standard Room Ring Main 4-3	Ring Final Circuit	4	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
5/L2	Common Room Room Ring Main 1	Ring Final Circuit	6	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
6/L2	Common Room Room Ring Main 2	Ring Final Circuit	5	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
7/L2	Common Room Cooker 1	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
8/L2	Common Room Cooker 2	Radial Circuit	1	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	10	4
9/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11/L2	Lighting Common Room	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
12/L2	Lighting Standard Room 10-8	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
13/L2	Lighting Standard Room 7-5	Radial Circuit	12	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
14/L2	Lighting Standard Room 2-1	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
15/L2	Lighting Standard Room 4-3	Radial Circuit	8	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
16/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_6** PTSG Job Ref **ESEIT33020**

DB Reference **DB-CL10-A** DB Location **Cardell A - 04 Kitchen Flat 10**

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

Circuits with connected lamps/control gear;Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **12/08/2025**

Signature 

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.07** Ω Nominal Voltage **230** v Polarity Ipfc **3.22** kA No of Phases **1** Phase Rotation **N/A**

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	r2 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1An (ms)	@51An (ms)	Test Button Operation		AFDD Test Button Operation
1/L2	0.33	0.33	0.55	0.22	N/A	N/A	LIM	>999	>999	250	✓	0.34	28.5	N/A	✓	N/A	
2/L2	0.45	0.44	0.70	0.29	N/A	N/A	LIM	>999	>999	250	✓	0.35	28.1	N/A	✓	N/A	
3/L2	0.24	0.24	0.39	0.16	N/A	N/A	LIM	>999	>999	250	✓	0.23	28.6	N/A	✓	N/A	
4/L2	0.45	0.45	0.72	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.34	28.1	N/A	✓	N/A	
5/L2	0.30	0.30	0.49	0.20	N/A	N/A	LIM	>999	>999	250	✓	0.27	28.3	N/A	✓	N/A	
6/L2	0.21	0.22	0.36	0.15	N/A	N/A	LIM	>999	>999	250	✓	0.22	28.3	N/A	✓	N/A	
7/L2	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.17	28.0	N/A	✓	N/A	
8/L2	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>999	>999	250	✓	0.19	28.5	N/A	✓	N/A	
9/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11/L2	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.47	28.9	N/A	✓	N/A	
12/L2	N/A	N/A	N/A	0.46	N/A	N/A	LIM	>999	>999	250	✓	0.53	27.0	N/A	✓	N/A	
13/L2	N/A	N/A	N/A	0.73	N/A	N/A	LIM	>999	>999	250	✓	0.80	28.9	N/A	✓	N/A	
14/L2	N/A	N/A	N/A	0.46	N/A	N/A	LIM	>999	>999	250	✓	0.55	27.9	N/A	✓	N/A	
15/L2	N/A	N/A	N/A	0.69	N/A	N/A	LIM	>999	>999	250	✓	0.76	24.9	N/A	✓	N/A	
16/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_5** PTSG Job Ref **ESEIT33020**

DB Reference **DB Laundrette (Power)+1** DB Location **Cardell A - 00 Laundrette**

Distribution Board Comments: **N/A**

Supply From: **ISO/Laundrette** Circuit Number: **1/TP** Over Current Device: **LIM LIM** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **LIM A** Type S RCD: **N/A** RCD Operating time at $I_{\Delta n}$: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	epc csa (mm ²)
10/L1	Stack Unit Power 7	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
10/L2	Stack Unit Power 6	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
10/L3	Stack Unit Power 5	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
11/L1	Stack Unit Power 4	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
11/L2	Stack Unit Power 3	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
11/L3	Stack Unit Power 2	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
12/L1	Stack Unit Power 1	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
12/L2	Stack Unit Power (Isolated)	Radial Circuit	N/V	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
12/L3	Ironing Station	Radial Circuit	1	0.4	60898	C	16	10	1.3656	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
13/L1	Ironing Station	Radial Circuit	1	0.4	60898	C	16	10	1.3656	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
13/L2	Duct Fan	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
13/L3	Water Cooler	Radial Circuit	1	0.4	60898	C	16	10	1.3656	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
14/L1	Laundry Alert	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
14/L2	TV	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
14/L3	Card Machine FCU	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
15/L1	Gas Solinoid	Radial Circuit	1	0.4	60898	C	16	10	1.3656	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
15/L2	Power F2	Radial Circuit	N/V	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
15/L3	LH Top Water Heater	Radial Circuit	1	0.4	60898	C	16	10	1.3656	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
16/L1	RH Top Water Heater	Radial Circuit	1	0.4	60898	B	20	10	2.185	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
16/L2	Unable to verify	Radial Circuit	N/V	0.4	60898	C	16	10	1.3656	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
16/L3	Data Socket	Radial Circuit	1	0.4	60898	C	16	10	1.3656	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
17/L1	Fire Alarm Panel	Radial Circuit	1	0.4	60898	B	16	10	2.7312	N/A	N/A	N/A	N/A	O	E&F	2.5	2.5
17/L2	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17/L3	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_5** PTSG Job Ref **ESEIT33020**

DB Reference **DB Laundrette (Power)+1** DB Location **Cardell A - 00 Laundrette**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **13/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **400** v Polarity Ipfc **8.08** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Polarity	Measured Zs (Ω)	RCD			Circuit Comments	
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage			@1s (ms)	@51s (ms)	Test Button Operation		AFDD Test Button Operation
10/L1	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.36	N/A	N/A	N/A	N/A	
10/L2	N/A	N/A	N/A	0.29	N/A	N/A	LIM	>999	>999	250	✓	0.35	N/A	N/A	N/A	N/A	
10/L3	N/A	N/A	N/A	0.32	N/A	N/A	LIM	>999	>999	250	✓	0.38	N/A	N/A	N/A	N/A	
11/L1	N/A	N/A	N/A	0.35	N/A	N/A	LIM	>999	>999	250	✓	0.41	N/A	N/A	N/A	N/A	
11/L2	N/A	N/A	N/A	0.20	N/A	N/A	LIM	>999	>999	250	✓	0.26	N/A	N/A	N/A	N/A	
11/L3	N/A	N/A	N/A	0.18	N/A	N/A	LIM	>999	>999	250	✓	0.24	N/A	N/A	N/A	N/A	
12/L1	N/A	N/A	N/A	0.21	N/A	N/A	LIM	>999	>999	250	✓	0.27	N/A	N/A	N/A	N/A	
12/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	N/A	N/A	N/A	N/A	
12/L3	N/A	N/A	N/A	0.16	N/A	N/A	LIM	>999	>999	250	✓	0.22	N/A	N/A	N/A	N/A	
13/L1	N/A	N/A	N/A	0.18	N/A	N/A	LIM	>999	>999	250	✓	0.24	N/A	N/A	N/A	N/A	
13/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	N/A	N/A	N/A	N/A	
13/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	N/A	N/A	N/A	N/A	
14/L1	N/A	N/A	N/A	0.20	N/A	N/A	LIM	>999	>999	250	✓	0.26	N/A	N/A	N/A	N/A	
14/L2	N/A	N/A	N/A	0.11	N/A	N/A	LIM	>999	>999	250	✓	0.17	N/A	N/A	N/A	N/A	
14/L3	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.16	N/A	N/A	N/A	N/A	
15/L1	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.36	N/A	N/A	N/A	N/A	
15/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	N/A	N/A	N/A	N/A	
15/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	N/A	N/A	N/A	N/A	
16/L1	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	N/A	N/A	N/A	N/A	
16/L2	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	N/A	N/A	N/A	N/A	
16/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	N/A	N/A	N/A	N/A	
17/L1	N/A	N/A	N/A	0.11	N/A	N/A	LIM	>999	>999	250	✓	0.17	N/A	N/A	N/A	N/A	
17/L2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
17/L3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
18/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number: **ESEITTC10070042_4** PTSG Job Ref: **ESEIT33020**

DB Reference: **DB Laundrette (Power)** DB Location: **Cardell A - 00 Laundrette**

Distribution Board Comments: **N/A**

Supply From: **ISO/Laundrette** Circuit Number: **1/TP** Over Current Device: **LIM** **LIM** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **LIM** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	opc csa (mm ²)
1/L1	Laundry General Sockets	Ring Final Circuit	4	0.4	61009	B	32	10	1.3656	61009	A	30	32	A	E&F	2.5	1.5
1/L2	Hot Water Cylinder	Radial Circuit	1	0.4	60898	C	32	10	0.6828	N/A	N/A	N/A	N/A	A	E&F	10	4
1/L3	Hot Water Cylinder	Radial Circuit	1	0.4	60898	C	32	10	0.6828	N/A	N/A	N/A	N/A	A	E&F	10	4
2/L1	Double Stacked Dryer	Radial Circuit	1	0.4	60898	C	16	10	1.3656	N/A	N/A	N/A	N/A	A	E&F	2.5	1.5
2/L2	Stack Unit Power 30	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
2/L3	Stack Unit Power 29	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
3/L1	Stack Unit Power 28	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
3/L2	Stack Unit Power 27	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
3/L3	Stack Unit Power 26	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
4/L1	Stack Unit Power 25	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
4/L2	Stack Unit Power 24	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
4/L3	Stack Unit Power 23	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
5/L1	Stack Unit Power 22	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
5/L2	Stack Unit Power 21	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
5/L3	Stack Unit Power 20	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
6/L1	Stack Unit Power 19	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
6/L2	Stack Unit Power 18	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
6/L3	Stack Unit Power 17	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
7/L1	Stack Unit Power 16	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
7/L2	Stack Unit Power 15	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
7/L3	Stack Unit Power 14	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
8/L1	Stack Unit Power 13	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
8/L2	Stack Unit Power 12	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
8/L3	Stack Unit Power 11	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
9/L1	Stack Unit Power 10	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
9/L2	Stack Unit Power 9	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1
9/L3	Stack Unit Power 8	Radial Circuit	1	0.4	60898	C	10	10	2.185	N/A	N/A	N/A	N/A	A	E&F	1.5	1

Types of Wiring:	A. PVC/PVC Cables	B. PVC Cables in metallic conduit	C. PVC Cables in non-metallic conduit	D. PVC Cables in metallic trucking	E. PVC Cables in non-metallic trucking	F. PVC/SWA Cables	G. XLPE/SWA cables	H. Mineral Insulated Cables	NA. N/A	O. Other
Installation methods	A. In conduit in thermally insulated wall	B. In conduit on a wall or in trucking	C. Clipped direct	D. Direct buried or in ducting or conduit in ground	E&F. In free air or on cable tray or ladder touching	G. In free air or on cable	100. Twin and Earth above plasterboard ceiling, insulation <100mm	101. Twin and Earth above plasterboard ceiling, insulation >100mm	102. Twin and Earth within insulated stud wall, touching inner wall	103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_4** PTSG Job Ref **ESEIT33020**

DB Reference **DB Laundrette (Power)** DB Location **Cardell A - 00 Laundrette**

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

Circuits with appliances plugged in to outlets where deemed impractical to remove all plugs.;Circuits with connected fixed appliances.

Tested By **William King** Date **13/08/2025**

Signature

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **400** v Polarity Ipfc **8.08** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (MΩ)					Test Voltage	Polarity	Measured Zs (Ω)	RCD			Circuit Comments
	r1 (line)	rn (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	@1An (ms)				@51An (ms)	Test Button Operation	AFDD Test Button Operation	
1/L1	0.49	0.50	0.84	0.33	N/A	N/A	LIM	>999	>999	250	✓	0.44	28.9	N/A	✓	N/A	
1/L2	N/A	N/A	N/A	0.10	N/A	N/A	LIM	>999	>999	250	✓	0.16	N/A	N/A	N/A	N/A	
1/L3	N/A	N/A	N/A	0.12	N/A	N/A	LIM	>999	>999	250	✓	0.18	N/A	N/A	N/A	N/A	
2/L1	N/A	N/A	N/A	0.30	N/A	N/A	LIM	>999	>999	250	✓	0.36	N/A	N/A	N/A	N/A	
2/L2	N/A	N/A	N/A	0.40	N/A	N/A	LIM	>999	>999	250	✓	0.46	N/A	N/A	N/A	N/A	
2/L3	N/A	N/A	N/A	0.42	N/A	N/A	LIM	>999	>999	250	✓	0.48	N/A	N/A	N/A	N/A	
3/L1	N/A	N/A	N/A	0.37	N/A	N/A	LIM	>999	>999	250	✓	0.43	N/A	N/A	N/A	N/A	
3/L2	N/A	N/A	N/A	0.45	N/A	N/A	LIM	>999	>999	250	✓	0.51	N/A	N/A	N/A	N/A	
3/L3	N/A	N/A	N/A	0.36	N/A	N/A	LIM	>999	>999	250	✓	0.42	N/A	N/A	N/A	N/A	
4/L1	N/A	N/A	N/A	0.33	N/A	N/A	LIM	>999	>999	250	✓	0.38	N/A	N/A	N/A	N/A	
4/L2	N/A	N/A	N/A	0.32	N/A	N/A	LIM	>999	>999	250	✓	0.38	N/A	N/A	N/A	N/A	
4/L3	N/A	N/A	N/A	0.31	N/A	N/A	LIM	>999	>999	250	✓	0.37	N/A	N/A	N/A	N/A	
5/L1	N/A	N/A	N/A	0.33	N/A	N/A	LIM	>999	>999	250	✓	0.39	N/A	N/A	N/A	N/A	
5/L2	N/A	N/A	N/A	0.25	N/A	N/A	LIM	>999	>999	250	✓	0.31	N/A	N/A	N/A	N/A	
5/L3	N/A	N/A	N/A	0.29	N/A	N/A	LIM	>999	>999	250	✓	0.35	N/A	N/A	N/A	N/A	
6/L1	N/A	N/A	N/A	0.25	N/A	N/A	LIM	>999	>999	250	✓	0.31	N/A	N/A	N/A	N/A	
6/L2	N/A	N/A	N/A	0.27	N/A	N/A	LIM	>999	>999	250	✓	0.33	N/A	N/A	N/A	N/A	
6/L3	N/A	N/A	N/A	0.29	N/A	N/A	LIM	>999	>999	250	✓	0.35	N/A	N/A	N/A	N/A	
7/L1	N/A	N/A	N/A	0.24	N/A	N/A	LIM	>999	>999	250	✓	0.30	N/A	N/A	N/A	N/A	
7/L2	N/A	N/A	N/A	0.22	N/A	N/A	LIM	>999	>999	250	✓	0.28	N/A	N/A	N/A	N/A	
7/L3	N/A	N/A	N/A	0.21	N/A	N/A	LIM	>999	>999	250	✓	0.27	N/A	N/A	N/A	N/A	
8/L1	N/A	N/A	N/A	0.23	N/A	N/A	LIM	>999	>999	250	✓	0.29	N/A	N/A	N/A	N/A	
8/L2	N/A	N/A	N/A	0.27	N/A	N/A	LIM	>999	>999	250	✓	0.33	N/A	N/A	N/A	N/A	
8/L3	N/A	N/A	N/A	0.25	N/A	N/A	LIM	>999	>999	250	✓	0.31	N/A	N/A	N/A	N/A	
9/L1	N/A	N/A	N/A	0.28	N/A	N/A	LIM	>999	>999	250	✓	0.34	N/A	N/A	N/A	N/A	
9/L2	N/A	N/A	N/A	0.28	N/A	N/A	LIM	>999	>999	250	✓	0.34	N/A	N/A	N/A	N/A	
9/L3	N/A	N/A	N/A	0.31	N/A	N/A	LIM	>999	>999	250	✓	0.37	N/A	N/A	N/A	N/A	

Circuit Details



Reference Number **ESEITTC10070042_3** PTSG Job Ref **ESEIT33020**

DB Reference **DB Laundrette (Lighting)** DB Location **Cardell A - 00 Laundrette**

Distribution Board Comments: **N/A**

Supply From: **ISO/Laundrette** Circuit Number: **1/TP** Over Current Device: **LIM** **LIM** RCD Operating Current: **N/A** mA

SPD Type(s): **N/A** SPD Indicator: **N/A** Device Rating: **LIM** A Type S RCD: **N/A** RCD Operating time at I_{Δn}: **N/A** ms

Circuit Number	Circuit Description	Circuit Category	Number of Points Served	Disconnection Time (seconds)	Devices BS (EN)	Device Type	Device Rating (A)	Device Breaking Capacity (kA)	Maximum Permitted Zs (Ω)	RCD BS (EN)	RCD Type	RCD Operating Current (mA)	RCD Rating (A)	Type of Wiring	Installation Method	Live csa (mm ²)	cpc csa (mm ²)
1/L1	Lighting Laundry	Radial Circuit	13	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
1/L2	Lighting Laundry Service Areas	Radial Circuit	6	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
1/L3	Lighting External	Radial Circuit	1	0.4	61009	C	10	10	2.185	61009	A	30	10	A	E&F	1.5	1
2/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/TP	Spare	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Types of Wiring: A. PVC/PVC Cables B. PVC Cables in metallic conduit C. PVC Cables in non-metallic conduit D. PVC Cables in metallic trucking E. PVC Cables in non-metallic trucking F. PVC/SWA Cables G. XLPE/SWA cables H. Mineral Insulated Cables NA. N/A O. Other

Installation methods: A. In conduit in thermally insulated wall B. In conduit on a wall or in trucking C. Clipped direct D. Direct buried or in ducting or conduit in ground E&F. In free air or on cable tray or ladder touching G. In free air or on cable 100. Twin and Earth above plasterboard ceiling, insulation <100mm 101. Twin and Earth above plasterboard ceiling, insulation >100mm 102. Twin and Earth within insulated stud wall, touching inner wall 103. Twin and Earth within insulated stud wall, not touching inner wall

Test Results



Reference Number **ESEITTC10070042_3** PTSG Job Ref **ESEIT33020**

DB Reference **DB Laundrette (Lighting)** DB Location **Cardell A - 00 Laundrette**

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

Circuits with connected lamps/control gear

Test Instrument Serial Number **Megger MFT 1721 - 102001048**

Tested By **William King** Date **13/08/2025**

Signature *W King*

Distribution Board Characteristics

Zs **0.06** Ω Nominal Voltage **400** v Polarity Ipfc **8.08** kA No of Phases **3** Phase Rotation

Circuit Number	Ring final circuit continuity (Ω)			Continuity (Ω)		Insulation Resistance (M Ω)					Measured Zs (Ω)	RCD			Circuit Comments		
	r1 (line)	r1 (neutral)	r2 (cpc)	R1 + R2	R2	Line-Line	Line-Neutral	Line-Earth	Neutral-Earth	Test Voltage		Polarity	@ Δ n (ms)	@5 Δ n (ms)		Test Button Operation	AFDD Test Button Operation
1/L1	N/A	N/A	N/A	0.68	N/A	N/A	LIM	>999	>999	250	<input checked="" type="checkbox"/>	0.74	28.9	N/A	<input checked="" type="checkbox"/>	N/A	
1/L2	N/A	N/A	N/A	0.45	N/A	N/A	LIM	>999	>999	250	<input checked="" type="checkbox"/>	0.51	28.9	N/A	<input checked="" type="checkbox"/>	N/A	
1/L3	N/A	N/A	N/A	LIM	N/A	N/A	LIM	>999	>999	250	LIM	LIM	28.5	N/A	<input checked="" type="checkbox"/>	N/A	
2/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/TP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

ELECTRICAL INSTALLATION CONDITION REPORT

(Electrical Installations – BS7671 IET Wiring Regulations)



Reference ESEITTC10070042_88

PTSG Job Ref ESEIT33020

Observations

Item	General Installation Observations	Outcome
1.	Arc fault detection devices (AFDD's) conforming to BS EN 62606 are recommended as a means of providing additional protection against fire caused by arc faults in AC final circuits - 421.1.7	C3

Item	DB Reference	Distribution Board Observations	Outcome
2.	DB-LL5-Lighting	DB/CU cover not provided with adequate number of fixings - cover in place - 134.1.1	C3
3.	DB-LL5-Power	DB/CU cover not provided with adequate number of fixings - cover in place - 134.1.1	C3
4.	DB-LL1-Power	DB/CU cover not provided with adequate number of fixings - cover in place - 134.1.1	C3
5.	DB Laundrette (Power)	DB/CU cover not provided with adequate number of fixings - cover in place - 134.1.1	C3
6.	DB-Laundrette-2	DB/CU cover not provided with adequate number of fixings - cover in place - 134.1.1	C3

Item	DB Reference	Circuit Reference	Circuit Observations	Outcome
7.	DB-LL1-Power	3/L1	Line conductors for a ring final circuit - no continuity of conductors - 526.6/643.2.1 - c	C2
8.	DB-LL1-Power	6/L3	Circuit not adequately labelled at distribution board, unable to locate and test - further investigation required to locate, identify and test circuit - 514.9/537.2.7/537.3.2.4/537.3.3.6	FI
9.	DB-LL1-Power	7/L3	Circuit not adequately labelled at distribution board, unable to locate and test - further investigation required to locate, identify and test circuit - 514.9/537.2.7/537.3.2.4/537.3.3.6	FI
10.	MPB/RESI	2/TP	Zs reading exceeds 80% of, but is less than 100%, of the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	C3
11.	MPB/RESI	3/TP	Zs reading exceeds 80% of, but is less than 100%, of the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	C3
12.	MPB/RESI +1	13/TP	Zs reading exceeds 80% of, but is less than 100%, of the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	C3
13.	MPB/RESI +1	14/TP	Zs reading exceeds 80% of, but is less than 100%, of the maximum permitted value as prescribed in BS7671 or manufacturers' values and is not protected by an RCD - 411.3.2.2	C3
14.	DB Laundrette (Lighting)	1/L2	Accessory has been damaged with NO live exposed parts - 651.2(v) - c	C2

ELECTRICAL INSTALLATION CONDITION REPORT GUIDANCE FOR RECIPIENTS



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

The purpose of this Condition Report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (See Section 4). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger.

This Report is only valid if accompanied by the Inspection Schedule(s) and the Schedule(s) of Circuit Details and Test Results.

The person ordering the Report should have received the “original” Report and the inspector should have retained a duplicate.

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

Section 3 (Extent and Limitations) should identify fully the extent of the installation covered by this Report and any limitation 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).

Some operational limitations such as inability to gain access to parts of the installation or an item or equipment may have been encountered during the inspection. The inspector should have noted these in section 3 – Extent and Limitation on page 1.

For Items classified in the observations as C1 (“Danger present”), the safety of those using the installation is at risk, and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work immediately.

For items classified in the observations as C2 (“Potentially dangerous”), the safety of the those using the installation may be at risk and it is recommended that a skilled person competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.

Where it has been stated that an observation requires further investigation the inspection has revealed an apparent deficiency which may result in a Code 1 or Code 2, and could not, due to the extent or limitation of the inspection, be fully identified. Such observations should be investigated without delay. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section 7 – Recommendations.).

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 on page 2 of the Report under “Recommendations”.

Where the installation includes a residual current device (RCD) it should be tested six-monthly by pressing the button marked “T” or “Test”. The device should switch off the supply when the button is pressed and should then be switched on to restore the supply. If the device does not switch off the supply when the button is pressed, seek expert advice. For safety reasons it is important that this instruction is followed.

Where the installation includes an arc fault detection device (AFDD) having a manual test facility it should be tested six-monthly by pressing the test button. Where an AFDD has both a test button and automatic test function, manufacturer’s instructions shall be followed with respect to test button operation.

Where the installation includes a surge protective device (SPD) the status indicator should be checked to confirm it is in operational condition in accordance with the manufacturer’s information. If the indication shows that the device is not operational, seek expert advice. For safety reasons it is important that this instruction is followed.

Where the installation includes alternative or additional sources of supply, warning notices should be found at the origin or meter position or, if remote from the origin, at the consumer unit or distribution board and at all points of isolation and all sources of supply.