

Original Report

Report Number: 511



ELECTRICAL INSTALLATION CONDITION REPORT Requirements for Electrical Installations – BS 7671: 2018 + A2: 2022

A. DETAILS OF THE PERSON ORDERING THE REPORT

Name: Downen Address 25 Church street Seaham

B. REASON FOR PRODUCING THIS REPORT

Purpose for which this report is required: To access the condition of the installation

Date(s) on which the inspection and testing was carried out: 01/02/23

C. DETAILS OF THE INSTALLATION WHICH IS THE SUBJECT OF THIS REPORT

Occupier: Address 114 Heathway Seaham

Description of premises : Domestic Commercial Industrial Other, please specify :

Estimated age of the wiring system 20 Years Evidence of additions or alterations ? If yes, estimated age Years

Installation records available ? (Regulation 651.1) No (yes/no) Date of last inspection: (date)

D. EXTENT AND LIMITATIONS OF INSPECTION AND TESTING

Extent of the electrical installation covered by this report Sample of fittings removed

Agreed limitations including the reasons, see Regulations 653.2

Agreed with:

Operational limitations including the reasons

See page No:

The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS 7671:2018 amended to A2: 2022

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.

E. SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety):

Overall assessment of the installation in terms of its suitability for continued use: Satisfactory (ENTER SATISFACTORY/UNSATISFACTORY)

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

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F. RECOMMENDATIONS

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

Subject to the necessary remedial action being taken, I/we recommend that the installation is further inspected and tested by: 01/02/18 (Date)

For the following reasons:

This report is based on the model shown in BS 7671: 2018: + A2: 2022

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G. DECLARATION

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

Inspected and tested by:

Name (Capitals) WA Jordan D607914

Signature



Report authorised for issue by:

Name (Capitals)

Signature

For/on behalf of AI Electrical Services

Position MD

Address 7 Ennerdale Close Seaham SR78DL

Date 01/02/23

For/on behalf of

Position

Address

Date

H. SCHEDULE(S)

Number of schedule(s) of inspection (Enter Number) and number of schedules of test results attached (Enter Number)

The attached schedule(s) are part of this document and this report is valid only when they are attached to it.

I. SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

| Earthing arrangements | Number and types of live conductors | | Nature of Supply Parameters | | | Supply Protective Device | |
|-----------------------|-------------------------------------|--------|--|------|----|---|--|
| | A.C | D.C | Nominal voltage, U/ U ₀ ⁽¹⁾ | 230 | V | BS (EN) 1361 type 1 | |
| TN-C | | | | | | Type | |
| TN-S | 1-phase 2 wire | 2-wire | Nominal frequency, f ⁽¹⁾ | 50 | Hz | Rated current 80 A | |
| TN-C-S | 2-phase 3 wire | 3-wire | Prospective fault current, I _p ⁽²⁾ | 16 | kA | Certificate Design © NationalCerts 2018 | |
| TT | 3-phase 3 wire | Other | External loop impedance, Z _s ⁽²⁾ | 0.22 | Ω | | |
| IT | 3-phase 4 wire | | (Note: (1) by enquiry (2) by enquiry or by measurement) | | | | |
| | Confirmation of supply polarity | | Other sources of supply (as detailed on attached schedule) | | | | |

J. PARTICULARS OF INSTALLATION REFERRED TO IN THE REPORT

Means of Earthing

Distributor's facility

Details of Installation Earth Electrode (where applicable)

| Installation earth electrode | Type (e.g rod(s), tape, etc) | Location | Electrode resistance to Earth | Ω |
|------------------------------|------------------------------|----------|-------------------------------|---|
| | | | | |

MAIN PROTECTIVE CONDUCTORS

| | | | | | | |
|--|---------------------|--------------|--------------|-------------------------|-----------------|--------------------------------|
| Earthing conductor | Material | Copper | csa | 16 | mm ² | Connection/continuity verified |
| Main protective bonding conductors | Material | Copper | csa | 10 | mm ² | Connection/continuity verified |
| Bonding to extraneous conductive parts | To water pipes | To gas pipes | To oil pipes | To lightning protection | | |
| | To structural steel | To other | Specify | | | |

MAIN SWITCH / SWITCH FUSE / CIRCUIT BREAKER / RCD

| MAIN SWITCH / SWITCH FUSE / CIRCUIT BREAKER / RCD | | | If RCD main switch | | |
|---|-------------------|--------------------------------|--------------------|---|----|
| Location | under stairs | Current rating | 100 A | Rated residual operating current (I _{Δn}) | mA |
| BS(EN) | BS EB 60947-2 ACB | Fuse/ device rating or setting | A | Rated time delay | ms |
| No of poles | 2 | Voltage rating | 230 V | Measured operating time | ms |

K. CONDITION REPORT INSPECTION SCHEDULE FOR RESIDENTIAL AND SIMILAR PREMISES WITH UP TO 100 A SUPPLY

Note: This form is suitable for many types of smaller installations, not exclusively residential. The persons responsible for the periodic inspection of the installation should include the relevant items in relation to the electrical installation, the inspection schedule can be reduced or expanded depending on the requirements for the installation.

| OUTCOMES | Acceptable Condition | Unacceptable condition – state C1 or C2 | Improvement recommended – state C3 | Further investigation required – state FI | Limitation: LIM | Not verified: N/V | Not Applicable: N/A |
|----------|---|---|------------------------------------|---|--------------------|-------------------|---|
| Item No | Description | | | Outcome | ADDITIONAL COMMENT | | |
| 1.0 | INTAKE EQUIPMENT (VISUAL INSPECTION ONLY) An outcome against an item in this section, other than access to live parts, should not be used to determine the overall outcome. | | | | | | |
| | - Service cable | | | | | | |
| | - Service head | | | | | | |
| | - Earthing arrangement | | | | | | |
| | - Meter tails | | | | | | |
| | - Metering equipment | | | | | | |
| | - Isolator (where present) | | | | | | |
| | NOTE 1: Where inadequacies in the intake equipment are encountered, which may result in a dangerous or potentially dangerous situation, the person ordering the work and/or dutyholder must be informed. It is strongly recommended that the person ordering the work informs the appropriate authority. NOTE 2: For this section only, where inadequacies are found, an 'X' should be put against the appropriate item and a comment made in Section L. Person ordering work/dutyholder notified (Yes/N/A) | | | | | | |
| 1.2 | Consumer's isolator (where present) | | | | | | |
| 1.3 | Consumer's meter tails | | | | | | |
| 2.0 | PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7) | | | | | | |
| 3.0 | EARTHING/BONDING ARRANGEMENTS (411.3; Chap 54) | | | | | | |
| 3.1 | Presence and condition of distributor's earthing arrangement (542.1.2.1; 542.1.2.2) | | | | | | |
| 3.2 | Presence and condition of earth electrode connection where applicable (542.1.2.3) | | | | | | |
| 3.3 | Provision of earth/bonding labels at all appropriate locations (514.13.1) | | | | | | |
| 3.4 | Confirmation of earthing conductor size (542.3; 543.1.1) | | | | | | |
| 3.5 | Accessibility and condition of earthing conductor at MET (543.3.2) | | | | | | |
| 3.6 | Confirmation of main protective bonding conductor sizes (544.1) | | | | | | |
| 3.7 | Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2) | | | | | | |
| 3.8 | Accessibility and condition of other protective bonding connections (543.3.1; 543.3.2) | | | | | | |
| 4.0 | CONSUMER UNIT(S)/DISTRIBUTION BOARD(S) | | | | | | This form and it's design are the copyrights of NATIONALCERTS © |
| 4.1 | Adequacy of working space/accessibility to consumer unit/distribution board (132.12; 513.1) | | | | | | |
| 4.2 | Security of fixing (134.1.1) | | | | | | |
| 4.3 | Condition of enclosure(s) in terms of IP rating etc (416.2) | | | | | | |
| 4.4 | Condition of enclosure(s) in terms of fire rating etc (421.1.201, 526.5) | | | | | | |
| 4.5 | Enclosure not damaged/deteriorated so as to impair safety (651.2) | | | | | | |
| 4.6 | Presence of linked main switch (as required by 461.1.201) | | | | | | |
| 4.7 | Operation of main switch (functional check) (643.10) | | | | | | |
| 4.8 | Manual operation of circuit-breakers and RCDs to prove disconnection (643.10) (functional check) | | | | | | |
| 4.9 | Correct identification of circuits details and protective devices (514.8.1; 514.9.1) | | | | | | |
| 4.10 | Presence of RCD six-monthly test notice, where required (514.12.2) | | | | | | |
| 4.11 | Presence of alternative supply warning notice at or near consumer unit/distribution board (514.15) | | | | | | |
| 4.12 | Presence of other required labelling (please specify) (Section 514) | | | | | | |
| 4.13 | 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) | | | | | | |

K. CONDITION REPORT INSPECTION SCHEDULE FOR RESIDENTIAL AND SIMILAR PREMISES WITH UP TO 100 A SUPPLY

Note: This form is suitable for many types of smaller installations, not exclusively residential.

The persons responsible for the periodic inspection of the installation should include the relevant items in relation to the electrical installation, the inspection schedule can be reduced or expanded depending on the requirements for the installation.

| OUTCOMES: | Acceptable Condition | Unacceptable condition – state C1 or C2 | Improvement recommended – state C3 | Further investigation required – state F/I | Limitation: LIM | Not Applicable: N/A | |
|-----------|----------------------|---|------------------------------------|--|-----------------|---------------------|--|
| ITEM | DESCRIPTION | | | | | OUTCOME | ADDITIONAL COMMENT |
| 4.14 | | | | | | | Single-pole switching or protective devices in the line conductors only (132.14.1; 530.3.3) |
| 4.15 | | | | | | | Protection against mechanical damage where cables enter consumer unit/distribution board (132.14.1; 522.8.1; 522.8.5; 522.8.11) |
| 4.16 | | | | | | | Protection against electromagnetic effects where cables enter consumer unit/distribution board/enclosure (521.5.1) |
| 4.17 | | | | | | | RCDs provided for fault protection – includes RCBOs (411.4.204; 411.5.2; 531.2) |
| 4.18 | | | | | | | RCDs provided for additional protection – includes RCBOs (411.3.3; 415.1) |
| 4.19 | | | | | | | Confirmation of indication that SPD is functional (651.4) |
| 4.20 | | | | | | | Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure (526.1) |
| 4.21 | | | | | | | Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6) |
| 4.22 | | | | | | | Adequate arrangements where a generating set operates in parallel with the public supply (551.7) |
| 5.0 | | | | | | | FINAL CIRCUITS |
| 5.1 | | | | | | | Identification of conductors (514.3.1) |
| 5.2 | | | | | | | Cables correctly supported throughout their run (521.10.202; 522.8.5) |
| 5.3 | | | | | | | Condition of insulation of live parts (416.1) |
| 5.4 | | | | | | | Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1) |
| | | | | | | | - To include the integrity of conduit and trunking systems (metallic and plastic) |
| 5.5 | | | | | | | Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (Section 523) |
| 5.6 | | | | | | | Coordination between conductors and overload protective devices (433.1; 533.2.1) |
| 5.7 | | | | | | | Adequacy of protective devices, type and rated current for fault protection (411.3) |
| 5.8 | | | | | | | Presence and adequacy of circuit protective conductors (411.3.1; Section 543) |
| 5.9 | | | | | | | Wiring system(s) appropriate for the type and nature of the installation and external influences (Section 522) |
| 5.10 | | | | | | | Concealed cables installed in prescribed zones (see Section D. Extent and limitations) (522.6.202) |
| 5.11 | | | | | | | Cables concealed under floors, above ceilings, or in walls / partitions, adequately protected against damage (see Section D. Extent and limitations) (522.6.204) |
| 5.12 | | | | | | | Provision of additional requirements for protection by RCD not exceeding 30mA: |
| | | | | | | | - For all socket-outlets of rating 32 A or less, unless an exception is permitted (411.3.3) |
| | | | | | | | - For the supply of mobile equipment not exceeding 32 A rating for use outdoors (411.3.3) |
| | | | | | | | - For cables concealed in walls at a depth of less than 50 mm (522.6.202; 522.6.203) |
| | | | | | | | - For cables concealed in walls/partitions containing metal parts regardless of depth (522.6.203) |
| | | | | | | | - Final circuits supplying luminaires within domestic (household) premises (411.3.4) |
| 5.13 | | | | | | | Provision of fire barriers, sealing arrangements and protection against thermal effects (Section 527) |
| 5.14 | | | | | | | Band II cables segregated/separated from Band I cables (528.1) |
| 5.15 | | | | | | | Cables segregated/separated from communications cabling (528.2) |
| 5.16 | | | | | | | Cables segregated/separated from non-electrical services (528.3) |
| 5.17 | | | | | | | Termination of cables at enclosures – indicate extent of sampling in Section D of the report (Section 526) |
| | | | | | | | - • connections soundly made and under no undue strain (526.6) |
| | | | | | | | - • no basic insulation of a conductor visible outside enclosure (526.8) |
| | | | | | | | - • connections of live conductors adequately enclosed (526.5) |

K. CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100 A SUPPLY (Continued)

Note: This form is suitable for many types of smaller installations, not exclusively residential. The persons responsible for the periodic inspection of the installation should include the relevant items in relation to the electrical installation, the inspection schedule can be reduced or expanded depending on the requirements for the installation.

| OUTCOMES: | Acceptable Condition | Unacceptable condition – state C1 or C2 | Improvement recommended – state C3 | Further investigation required – state FI | Limitation: LIM | Not Applicable: N/A |
|---------------|---|---|------------------------------------|---|-----------------|---------------------|
| ITEM | DESCRIPTION | | | | OUTCOME | LOCATION REFERENCE |
| - | adequately connected at point of entry to enclosure (<i>glands, bushes etc.</i>) (522.8.5) | | | | | |
| 5.18 | Condition of accessories including socket-outlets, switches and joint boxes (651.2(v)) | | | | | |
| 5.19 | Suitability of accessories for external influences (512.2) | | | | | |
| 5.20 | Adequacy of working space / accessibility to equipment (132.12; 513.1) | | | | | |
| 5.21 | Single-pole switching or protection devices in line conductors only (132.14.1, 530.3.3) | | | | | |
| 6.0 | LOCATION(S) CONTAINING A BATH OR SHOWER | | | | | |
| 6.1 | Additional protection for all low voltage (LV) circuits by RCD not exceeding 30 mA (701.411.3.3) | | | | | |
| 6.2 | Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5) | | | | | |
| 6.3 | Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3) | | | | | |
| 6.4 | Presence of supplementary bonding conductors unless not required by BS 7671: 2018 (701.415.2) | | | | | |
| 6.5 | Low voltage (e.g. 230 volt) socket outlets sited at least 2.5m from zone 1 (701.512.3) | | | | | |
| 6.6 | Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2) | | | | | |
| 6.7 | Suitability of accessories and control gear etc. for a particular zone (701.512.3) | | | | | |
| 6.8 | Suitability of current-using equipment for particular position within the location (701.55) | | | | | |
| 7.0 | OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS | | | | | |
| 7.1 | List all other special installations or locations present, if any. (Record separately the results of particular inspections applied). | | | | | |
| 8.0 | PROSUMER'S LOW VOLTAGE ELECTRICAL INSTALLATION(S) | | | | | |
| 8.1 | Where the installation includes additional requirements and recommendations relating to Chapter 82, additional inspection items should be added to the checklist. | | | | | |
| Inspected by: | Name: | Signature: | | Date: | | |

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L. OBSERVATIONS

Referring to the attached inspection schedule(s) and schedule(s) of circuit details and test results, and subject to the limitations specified at the extent and limitations of inspection and testing section .

(Continue on addition observation sheets if required)

No remedial action is required

The following observations are made (see below)

OBSERVATION(S) include schedule reference, as appropriate

CLASSIFICATION CODE

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

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

CERTIFICATE NO:

CONDITION REPORT.

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

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Notes for the person producing the Report:

- 1 This Report should only be used for reporting on the condition of an existing electrical installation, and not for the replacement of a consumer unit/distribution board. An installation which was designed to an earlier edition of BS 7671 or the IEE Wiring Regulations and which does not fully comply with the current edition is not necessarily unsafe for continued use, or requires upgrading. Only damage, deterioration, defects, dangerous conditions and non-compliance with the requirements of BS 7671 or the IEE Wiring Regulations, which may give rise to danger, should be recorded.
- 2 The report, normally comprising at least five pages, should include schedules of both the inspection and the test results. Additional pages may be necessary for other than a simple installation and for the 'Guidance for recipients'. The number of each page should be indicated, together with the total number of pages involved.
- 3 The reason for producing this Report, such as change of occupancy or landlord's periodic maintenance, should be identified in Section B.
- 4 Those elements of the installation that are covered by the Report and those that are not should be identified in Section D (Extent and limitations). These aspects should have been agreed with the person ordering the report and other interested parties before the inspection and testing commenced. Any operational limitations, such as inability to gain access to parts of the installation or an item of equipment, should also be recorded in Section D.
- 5 The maximum prospective value of fault current (I_{pf}) recorded should be the greater of either the prospective value of short-circuit current or the prospective value of earth fault current.
- 6 Where an installation has an alternative source of supply a further schedule of supply characteristics and earthing arrangements based upon Section I of this Report should be provided.
- 7 A summary of the condition of the installation in terms of safety should be clearly stated in Section E. Observations, if any, should be categorised in Section L using the coding C1 to C3 as appropriate. Any observation given a code C1 or C2 classification should result in the overall condition of the installation being reported as unsatisfactory.
- 8 Wherever practicable, items classified as 'Danger present' (C1) should be made safe on discovery. Where this is not possible the owner or user should be given written notification as a matter of urgency.
- 9 Where an observation requires further investigation (FI) because the inspection has revealed an apparent deficiency which could not, owing to the extent or limitations of the inspection, be fully identified and further investigation may reveal a code C1 or C2 item, this should be recorded within Section K, given the code FI and marked as unsatisfactory in Section E.
- 10 If the space available for observations in Section K is insufficient, additional pages should be provided as necessary.
- 11 The date by which the next Electrical Installation Condition Report is recommended should be given in Section F. The interval between inspections should take into account the requirements of Regulation 652.1 and the overall condition of the installation.
- 12 Any deficiencies with intake equipment should be reported to the person ordering the work.

CONDITION REPORT INSPECTION SCHEDULE GUIDANCE FOR THE INSPECTOR

- 1 Section 1.0. Where inadequacies in the intake equipment are encountered the inspector should advise the person ordering the work to inform the appropriate authority.
- 2 The schedule is not exhaustive.
- 3 Numbers in brackets are regulation references to specific requirements

CONDITION REPORT.

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GUIDANCE FOR RECIPIENTS (to be appended to the Report)

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

- 1 The purpose of this Report is to confirm, as far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see Section E). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger (see Section K).
- 2 This Report is only valid if accompanied by the Inspection Schedule(s) and the Schedule(s) of Circuit Details and Test Results.
- 3 The person ordering the Report should have received the 'original' Report and the inspector should have retained a duplicate.
- 4 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.
- 5 Section D (Extent and Limitations) should identify fully the extent of the installation covered by this Report and any limitations on the inspection and testing. The inspector should have agreed these aspects with the person ordering the Report and with other interested parties (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.
- 6 Some operational limitations such as inability to gain access to parts of the installation or an item of equipment may have been encountered during the inspection. The inspector should have noted these in Section D.
- 7 For items classified in Section K as C1 ('Danger present') the safety of those using the installation is at risk, and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work immediately.
- 8 For items classified in Section K as C2 ('Potentially dangerous') the safety of those using the installation may be at risk and it is recommended that a skilled person or persons competent in electrical installation work undertakes the necessary remedial work as a matter of urgency.
- 9 Where it has been stated in Section K that an observation requires further investigation (code FI) the inspection has revealed an apparent deficiency which may result in a code C1 or C2, and could not, due to the extent or limitations of the inspection, be fully identified. Such observations should be investigated without delay. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).
- 10 For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a skilled person or persons, competent in such work. The recommended date by which the next inspection is due is stated in Section F of the Report under 'Recommendations'.
- 11 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 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.
- 12 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.
- 13 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 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.

14 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 of all sources of supply.