

## Category A- Emergency

Immediately report to the DB by telephone

Asset Condition Code	Code Description
A07	Exposed live conductors (live or neutral)
<p><u>Description:</u></p> <p>This code should be used for reporting <u>exposed live conductors or terminations only when associated with DB equipment; this means:</u></p> <ul style="list-style-type: none"> <li>Reporting all exposed phase conductors</li> <li>Reporting all exposed neutral conductors associated with non-PME supplies</li> </ul> <p><u>Do not report exposed combined neutral/earth conductors associated with PME electricity services as these are not considered to be live conductors.</u></p> <p><u>Examples of what is reportable and not reportable are shown in the photos in the section titled 'Explanation of earthing arrangements'. The section also explains how to distinguish between the different earthing arrangements.</u></p> <p><u>situations where there are exposed (easily touched) live conductors associated with the DB equipment. Examples are shown in the photos on the next pagesubsequent pages. By definition in <b>non-PME</b> (protective multiple earth) electricity services the neutral is a live current carrying conductor, and therefore falls under this code.</u></p> <p><u>If the service to the building is a PME service any exposed combined neutral/earth termination or conductor is <b>not NOT</b> considered to be a live conductor. A PME service must be bonded to the customer's installation to be deemed PME.Note: Report any live single insulated DB service conductor under Code C15 if there is no other mechanical protection present.</u></p> <p><u>Please refer to section titled 'Explanation of earthing arrangements' for information on how to distinguish between the different earthing arrangements.</u></p> <p><u>This code should not be used where:</u></p> <ul style="list-style-type: none"> <li><u>Eearth terminals are exposed by design (e.g. some distribution boards and cut-outs have external earth terminals or where cut-outs have knock-outs for the provision of an earth connection).</u></li> <li><u>Ceombed neutral-earth conductors forming part of the cut-out are exposed.</u></li> <li><u>Ceombed neutral-earth conductors associated with the incoming (service) cable are exposed.</u></li> <li><u>The cut-out structure may be defective but live terminals are undisturbed and cannot be touched (these codes would be reported under the appropriate code).</u></li> <li><u>There are issues with designed access points to protection chambers but the live conductors or terminations cannot be touched.</u></li> <li><u>designed access points to protection chambers.</u></li> <li><u>Mmeter tail access points where the plugs are missing – these access points should be made safe by the MOCOPA® Operator.</u></li> </ul>	

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A07	Exposed live conductors (live or neutral) <ul style="list-style-type: none"><li><u>Situations where the installed meter tails do not completely fill the cable entry access on the DB equipment – in these situations it is the responsibility of the MOCOPA® Operator to take appropriate remedial action which may include in the first instance to re-terminate the meter tail. Other options which should be considered include the use of a putty sealant, grommets and, security/safety collars where appropriate.</u></li><li><u>situations where the installed meter tails do not completely fill the cable entry access on the DB equipment – in these situations it is the responsibility of the MOCOPA® Operator to take appropriate remedial action which may include the use of a putty sealant, grommets, build-up of insulation tape or re-terminate the meter tail.</u></li><li><u>earth terminals are exposed by design (e.g. some distribution boards have external earth terminals or where cut-outs have knock-outs for the provision of an earth connection).</u></li></ul> <p><b>Actions:</b></p> <ul style="list-style-type: none"><li>Keep the immediate area clear of obstructions and keep everyone at a safe distance.</li><li>If there are any exposed conductors associated with the DB equipment as above, unless you can make safe, stop work and do not attempt to test or operate the equipment.</li><li>Contact the DB immediately by telephone – report code A07 and indicate whether there is any evidence of interference, vandalism or damage resulting in exposed live conductors.</li><li><u>Ensure that you have:</u><ul style="list-style-type: none"><li><u>Provided the DB with the Customer's contact details and made clear whether the Customer is off supply.</u></li><li><u>Provided the Customer with the DB contact telephone number and the unique job reference number provided by the DB.</u></li></ul></li><li><u>Continue to monitor the situation, and inform DB if the situation deteriorates</u></li><li><u>Remain on Site until the DB staff arrive, unless you are satisfied that you can make the Site safe and secure – follow your company policy.</u></li><li><u>If you choose to leave the Site, make sure you tell the DB, so that they know to make contact with the Customer for access.</u></li></ul> <p><u>The DB does not recommend that you leave site. If you choose to leave site, it should be in accordance with your company's risk assessment policy. This needs to take into account that by leaving site the DB may not gain access for an unspecified period of time. You will be taking responsibility for the electrical safety associated with this work until such time as the DB gains access.</u></p> <p><u>Make sure you tell the DB that you are leaving the Site and inform the customer to remain on Site until the DB arrives.</u></p> <p><u>If you believe you can make the Site safe, before leaving Site always provide the Customer with:</u></p>

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Asset Condition Code	Code Description
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<ul style="list-style-type: none"><li>• The DB contact telephone number; and</li><li>• The unique job reference number provided by the DB;</li></ul> <p>and ensure that you have given the Customer's contact details to the DB.</p>	

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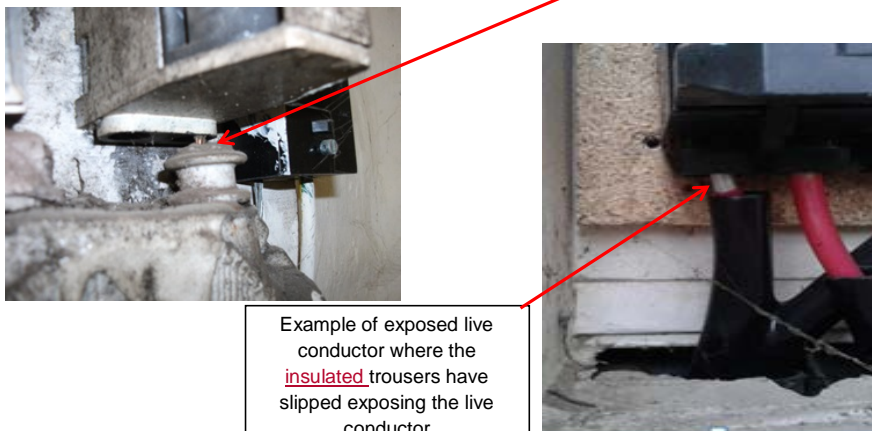
Immediately report to the DB by telephone

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A07	Exposed live conductors (live or neutral)

#### Continued

#### Photo examples – Exposed live conductors

This is an example of a “modernised” cut-out (plastic fuse carriers onto metal encased sealing chamber) showing visible bare wires from the cable termination to the fuse unit. This poses danger if the live conductors could meet the metal casing of the cable termination.



Example of exposed live conductor where the insulated trousers have slipped exposing the live conductor

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### Explanation of earthing arrangements

The vast majority of earthing arrangements encountered in the UK will be either TN-S (SNE), TN-C-S (PME) or TT.

#### TN-S (SNE) earthing arrangement

This is where the service cable has a separate neutral and earth conductor at the service position. The earth is usually provided by the metallic cable sheath or a dedicated conductor as part of the cable design. Examples shown below are for presentation purposes only **which includes intentional removal of the termination and crutch covers.:**



#### **SNE arrangement -**

Note that the link is removed to provide separate neutral and earth connection



**SNE arrangement**

#### TN-C-S (PME) earthing arrangement

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This is where the service has a combined neutral and earth conductor terminated at the service position and bonded to the customer's installation. Examples shown below are for presentation purposes only which includes intentional removal of the termination and crutch covers:-

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**PME arrangement -**  
Note separate neutral and earth blocks with link inserted to create PME connection arrangement



**PME arrangement -**  
Note single connection point for both neutral and earth conductors

### TT earthing arrangement

This is where the DB does **NOT** provide an earth connection via their DB equipment and is normally recognised by the lack of any earth connection to the incoming supply cable sheath or neutral/earth conductor.

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### Examples of non-reportable events taking account of the earthing arrangement Continued

Where cut-outs have missing 'knock outs or blanking plugs' as shown below should NOT be reported as these are specifically designed to provide access to the earth terminal. PME cut-outs which have missing 'knock outs' as shown below should not be reported under this code A07 as these are not considered to be live conductors:-



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<div> <div> <p>Cut-out with 'blanking plug's' in place</p> </div> <div>  </div> </div>	<div> <p>Cut-out with 'blanking plug' missing and the neutral/earth is exposed to the touch.</p> <p><b>Note:</b>-This <u>not reportable</u> only reportable if the</p> </div> <div>  </div> <div> <p>Older style equivalent</p> </div>



### Category C – Asset Condition

Continue with your work but report the issue to the DB via data flow

Asset Condition Code	Code Description
C15	DB cable into cut-out is VIR/MICC

#### Description:

The final service cable to the cut-out (sometimes referred to as 'lead-in') can be:

- The cable between the overhead line and the cut-out; or
- Looped from another cut-out.

This code must be used to report lead-ins which are in a serviceable condition but provided via:

- A Mineral Insulated Copper covered Cable (MICC, sometimes known as Pyro).
- A single VIR (Vulcanised India Rubber) conductor.

VIR installations are commonly:

- Found in older properties;
- Fed by an overhead service; or
- Found in multiple-occupancy buildings.

**Note that this code should only be used to report DB service cable information, not landlord (Building Network Operator) equipment.**

Old overhead (VIR) service neutrals were sometimes terminated directly into the meter (no neutral block). Do not attempt to carry out any work, but refer to code B07 (Meter tails need to be replaced but cannot be changed safely by competent staff).

Please note: Until a new specific C code can be created for the following scenario, then this should be reported under this Code (C15).

- Report any live single insulated DB service conductor under Code C15 if there is no other mechanical protection present.

**This code (C15) shall also be used to report any instance where easily touched single insulated cable on the final service cable to the cut-out is identified either by design or defect.**

#### Actions:

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### Category C – Asset Condition

Continue with your work but report the issue to the DB via data flow

Asset Condition Code	Code Description
C15	DB cable into cut-out is VIR/MICC
<ul style="list-style-type: none"><li>• Continue with your work.</li><li>• Report the issue to the DB via the data flow system – report code C15.</li><li>• Provide the DB with the Customer's name and contact number using the data flow system.</li><li>• </li></ul>	

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### Category C – Asset Condition

Continue with your work but report the issue to the DB via data flow

Asset Condition Code	Code Description
C15	DB cable into cut-out is VIR/MICC

#### Continued

Photo examples – Mineral Insulated (MICC) and Vulcanised Indian Rubber (VIR) cables

