

A07

Description:

This code should be used for reporting exposed live conductors or ~~terminations~~terminals only when associated with DB equipment; this means:

- Reporting all exposed phase conductors
- Reporting all exposed neutral conductors associated with non-PME supplies

Do not report exposed combined neutral/~~earth~~ conductors associated with PME electricity services as these are not considered to be live conductors.

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.

Commented [BW1]: Insert 'a service is only PME if it is bonded to the customer's installation for the purpose of this document etc' into this section

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

This code should not be used where:

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- Earth 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).
- Combined neutral-earth conductors or terminals forming part of the cut-out are exposed.
- Combined neutral-earth conductors associated with the incoming (service) cable are exposed.
- The cut-out structure may be defective but live terminals are undisturbed and cannot be touched ~~(these codes w~~ould be reported under the appropriate code e.g. A04, A08, C07).
- Missing combined neutral–earth covers (use code C15).
- There are issues with designed access points to protection chambers but the live conductors or ~~terminations~~terminals cannot be touched.
- The plugs are missing from Meter-meter tail access points ~~where the plugs are missing~~ – these access points should be made safe by the MOCOPA® Operator.
- 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 an appropriate putty sealant, grommets and, security/safety collars where appropriate.

Actions:

- Keep the immediate area clear of obstructions and keep everyone at a safe distance.
- 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.
- 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.
- Ensure that you have:
 - o Provided the DB with the Customer's contact details and made clear whether the Customer is off supply.
 - o Provided the Customer with the DB contact telephone number and the unique job reference number provided by the DB.
- Continue to monitor the situation, and inform DB if the situation deteriorates

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.

If you choose to leave Site, Make sure you tell the DB that you are leaving ~~the Site~~ and inform the ~~customer~~ Customer to remain on Site until the DB arrives or until the DB gets in contact to arrange access.

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.~~

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 terminal~~ and crutch covers.

TN-C-S (PME) earthing arrangement

This is where the service has a combined neutral and earth conductor terminated at the service position and bonded to the ~~customer's~~ Customer's installation or in the case of new supplies, is ready for connection. Examples shown below are for presentation purposes only which includes intentional removal of the ~~termination terminal~~ and crutch covers.

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~~ or cut out.

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

Where cut-outs have missing 'knock outs or blanking plugs' as shown below, these should NOT be reported as ~~these~~ they are specifically designed to provide access to the earth terminal.

Commented [BW2]: Pg 33, right hand picture should be cropped to not show the right hand earth terminal and reference to the neutral/earth terminal should be replaced with neutral-earth terminal in the caption box.

Also update the caption box to say that 'this is not reportable'.

C15

This code should be used for reporting service cables which are in a serviceable condition but provided via:

- A Mineral Insulated Copper covered Cable (MICC, sometimes known as Pyro).
- Vulcanised India Rubber (VIR) conductors.
- Other instances of single insulated DB conductors, which are not mechanically protected (on a temporary basis, until a new Code is created).
- Missing combined neutral–earth covers (on a temporary basis, until a new Code is created).

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.~~

Actions:

Commented [BW3]: Richard to provide photographic examples

- Continue with your work.
- Report the issue to the DB via the data flow system – report code C15.
- Provide the DB with the Customer's name and contact number using the data flow system.
- In the free text field in the data flow system, report whether it is MICC, VIR, single insulated, or missing cover.