

EICRs and Coding



Shahid Khan Technical Manager

AGENDA

- Introduction
- The fault codes
- Consequences of a code
- Non-BS 7671 items
- Inspection or Testing?
- How can we help?
- Summary







- 6 reasons for conducting periodics (or condition reporting):
 - The safety of persons and livestock against the effects of electric shock and burns
 - Protection against damage to property by fire and heat arising from an electrical installation defect
 - Confirmation of the correct rating and setting of protective devices providing adequate protection against electric shock



- Confirmation of the correct rating and setting of monitoring devices
- Confirmation that the installation is not damaged or deteriorated so as to impair safety
- The identification of installation defects and noncompliances with regards to the requirements of BS 7671, that may give rise to danger.



- EICR Coding is a regular question on the ECA technical helpline
- Coding is not an exact science depends on numerous factors
- The inspector is best placed to make the call
- Provide guidance/points to consider
- PRS 2020 England Only



Contributors:

We would like to thank the following organisations for their continued support:

British Cables Association Certsure (trading as NICEIC and Elecsa) City and Guilds FΔI

Electrical Contractors' Association of Scotland (SELECT)

Electrical Safety First

The GAMBICA Association Ltd.

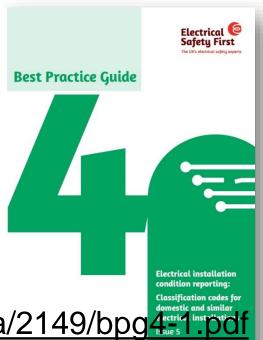






- A non-bias industry guide
- Contributors:





FREE DOWNLOAD

https://www.electricalsafetyfirst.org.uk/media/2149/bpg4=1-r



THE FAULT CODES



 C1 – Danger Present. Risk of Injury. Immediate remedial action required aka Immediately Dangerous

The item is dangerous as it currently appears – no further actions must occur

A failure of basic protection – thus exposed live parts



C2 – Potentially Dangerous – urgent remedial action required

If a fault occurred, it would lead to the installation becoming dangerous.



• C3 – Improvement Recommended

A recommendation for improving the current installation, which does not impair the safety aspects

*Think of the language – swapped the word "dangerous" with "recommended", so the level/type of fault must also reflect this



FI – Further Investigation without delay

Not normally required as most items can be sorted into C1,C2,C3

When it is not possible to pinpoint the defect, this code can be used – not to be done lightly as it will lead to the installation being unsatisfactory as a result awarding this code to an item



WHAT CODE WOULD YOU GIVE IT?



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C1



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C1

And possibly a couple of

C3's





C3





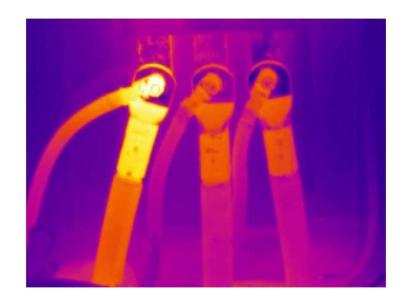
C2





A C1, C2 and a C3 all in one picture!





C2



THE CONSEQUENCES OF A CODE



CONSEQUENCES OF A CODE

- Any C1 / C2 / FI codes indicate that the installation is unsatisfactory and requires remedial actions
- C3 codes are recommendations and do not alone cause an installation to be awarded an unsatisfactory result

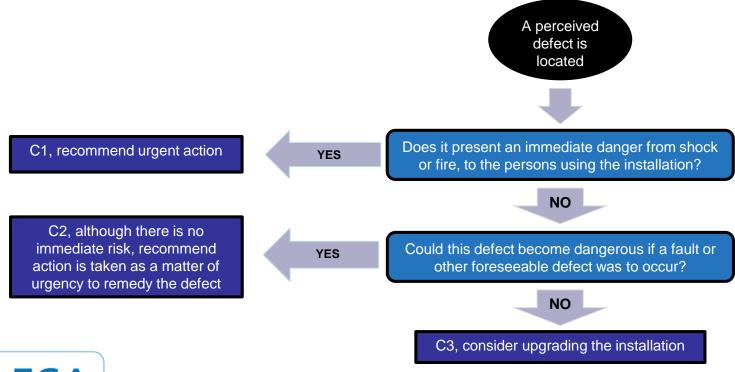


CONSEQUENCES OF A CODE

- EICRs are another example of risk-based analysis within the electrical industry
- It is the inspectors judgement of the level of risk posed to the safety for building users, by the electrical defect
- Decisions should not be subjective Must be able to justify any decision to code an item with reference to a contravention of the Regulations (BS 7671)



EICR CODING DECISION TREE





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TO FIX OR NOT TO FIX?

Minor issues – fixed on site

How to record this information?

Should not be on the EICRs

 ECA Post-EICR Assessment Completion Form





NON-BS 7671 ITEMS



NON-BS 7671 ITEMS

 Outside the scope of an EICR as this are specific for checking an installation against BS 7671

 Best practice: To highlight other concerns that an inspector may have, but not to record on the EICR





- Truth is, both are required
- Inspection precedes testing and is a 50:50 partner in the relationship
- Can typically spot majority of defects via Inspection alone if done properly



- Be clear about the Extent and Limitations as agreed with client/rep
- Competency of inspector and familiarity with the type of installation
- Where feasible do a walk round survey
- Ask for previous documentation



- Covid-19 Social Distancing
- Reg 4 Danger
- Reg 29 Defence
- Advise your client about good record keeping



HOW CAN WE HELP?



ECA – ELECTROTECHNICAL TRADE ASSOCIATION















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HOW WE HELP

- Guidance Notes
- Technical Bulletins
- Application Guides
- Input on Industry Codes of Practice
- BSI / IET JPEL
 Committees







SUMMARY



SUMMARY

- The inspector is best placed to award a code
- Always have a balanced approach and think of the consequences of awarding a code
- Can a regulation number be attached to the fault, thus removing any bias from the decision
- EICRs are only to be used when checking against BS 7671
- Inspection is just as important as testing, if not more
- Rejuvenated by the new PRS legislation
- We are here to help our members...Just ask!



QUESTIONS?

















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