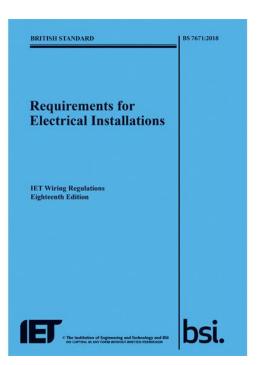
18th Edition and how it can impact you

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Who are we?

- ECA are the Trade Association for the electrotechnical industry
- We were formed in 1901
- Work closely with EDA and other industry partners





What is it?

- The IET Wiring Regulations is the Standard to which designers and installers of electrical installations work to
- It is not the law, but can be used to prove compliance with the law, namely the Electricity at Work Regulations 1989
- Therefore designers, engineers and electricians should work to it
- Wholesalers can help this by providing the right products



When is it out?

- The 18th Edition of the Wiring Regulations is due out 1st July 2018
- Full implementation is required after 1st January 2019
- Between these dates, designers can work to the 17th or the 18th, but not both



So what has changed?

- In short, lots
- The book is now over 600 pages long, an increase of approx 200 pages from the 17th Edition
- There are new and updated requirements
- With many new opportunities





Why has it changed?

- IEC and CENELEC harmonisation continues
- Chance to update some Regulations that were not clear
- Chance to incorporate new products or ideas
- All British Standards must move and adapt, or they become quickly obsolete



So what has changed?

- There are some key elements that will impact designers, suppliers and installers
- Suppliers need to be aware of these changes to offer the right products to their clients
- The following is a brief overview of the headline changes



- Metallic cable supports
- All wiring systems shall be supported to against premature collapse in the event of fire
- Previously this was just in escape routes
- This will result in an increased use of metallic clips, wraps, cleats and supports







- Surge protection devices
- Updated section on SPD
- More emphasis placed on risk assessment, and potentially more SPDs needed, certainly more information available





- Arc Fault Detection Devices
- AFDDs are a new recommended product
- These devices are new to the UK, often double pole and must be used in conjunction with other devices
- They are just a recommendation, not a requirement





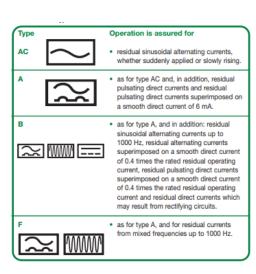
- Earth electrodes (rods)
- Additional information about the requirements of Electric Vehicles
- PME is very difficult to use, so TT and electrodes or safety isolating transformers may be needed
- 13 A sockets to be EV compliant and marked



RCDs

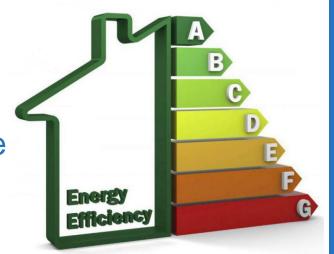
- New types of RCDs now recognised depending on presence of DC components or higher frequencies
 - Type AC
 - Type A
 - Type B
 - Type F

Note - These are not to be confused with B, C and D curve circuit breakers and RCBOs, they are specifically referring to the RCD element





- Energy efficient products
- New Appendix 17 for Energy Efficiency
- This new appendix extols the virtue of an energy efficient design, not just a functional design
- More emphasis on efficient products
- Will be developed into Part 8





What are you likely to be asked for?

- New fixings and supports increased use of metallic supports needed
- SPDs more information likely to result in increased use
- AFDDs Recommended for numerous installations
- Earth electrodes more emphasis on TT systems for EV charging
- Socket outlets marked EV Required for Electric Vehicles
- **Different types of RCDs** required for Electric Vehicles and other installations
- New books not just the Regulations but also guides
- New certificates the changes are in some places subtle, but contractors will need new forms
- Upgraded test equipment although no specific requirement to change testers, people using new RCDs may find their test equipment is not suitable



The end

Thank you

Any questions?

