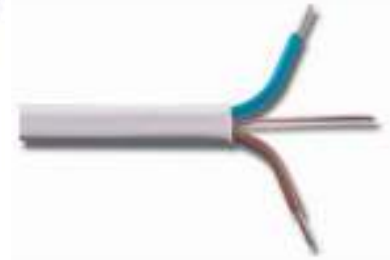




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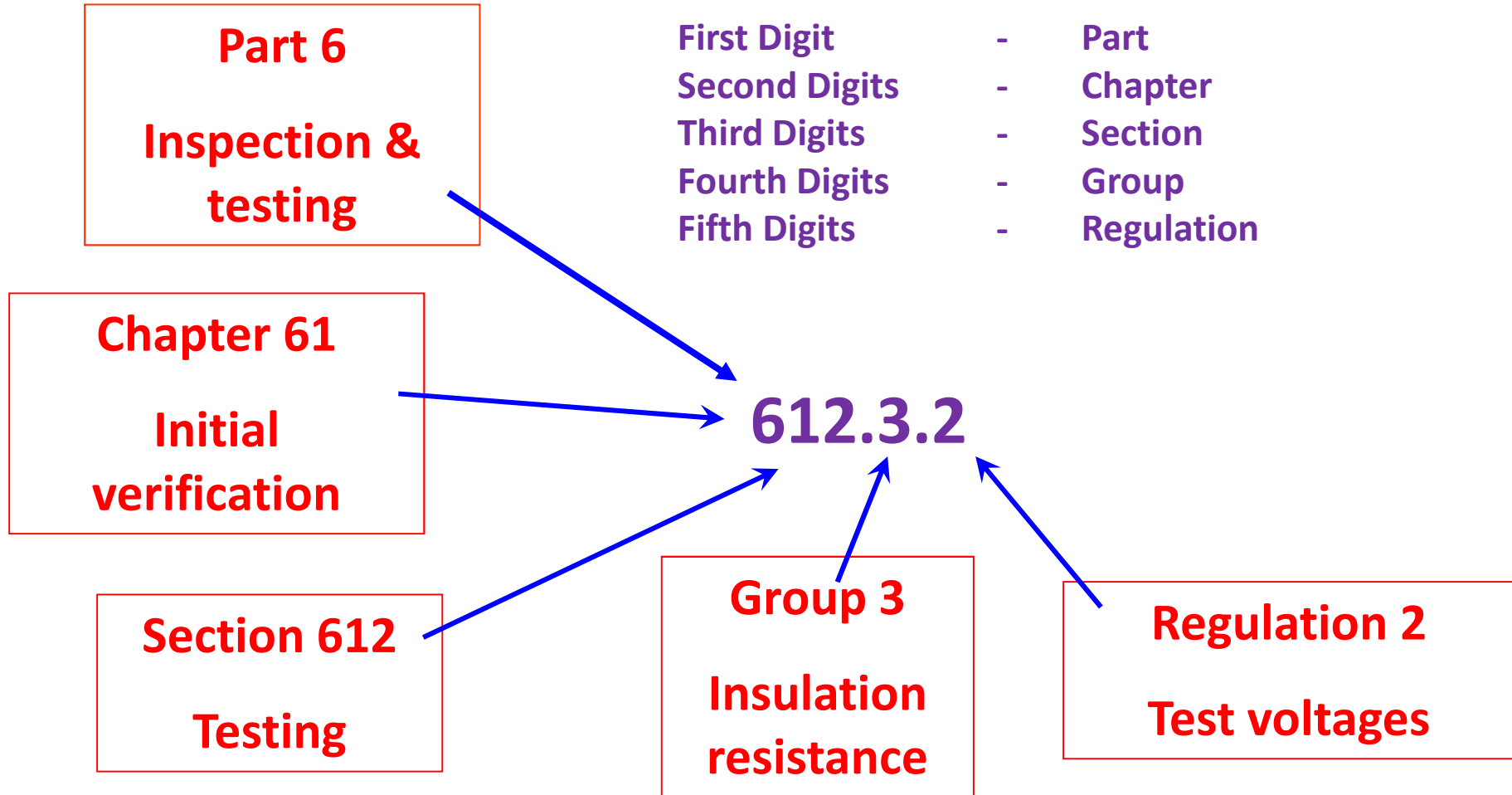
17<sup>th</sup> Edition 2012

# Amendments Seminar leading to 2012

# ***AMENDMENTS OVERVIEW***

- ***Earthing systems diagrams now in part 3***
- ***New numbering system for UK only***
- ***Changes to fuse designations***
- ***Chapter 44 electromagnetic influences added***
- ***Changes to Reg. 522.6 (cables in walls)***
- ***Part 6 now has Electrical Installation Condition Report***
- ***Part 7 changes/additions to Special Installations or Locations***
- ***Appendix 16 surge protective devices added***
- ***Appendices have changes & Appendix 11 & 12 deleted***

# Regulation Numbering



# TABLES

41.2

**Part 4**

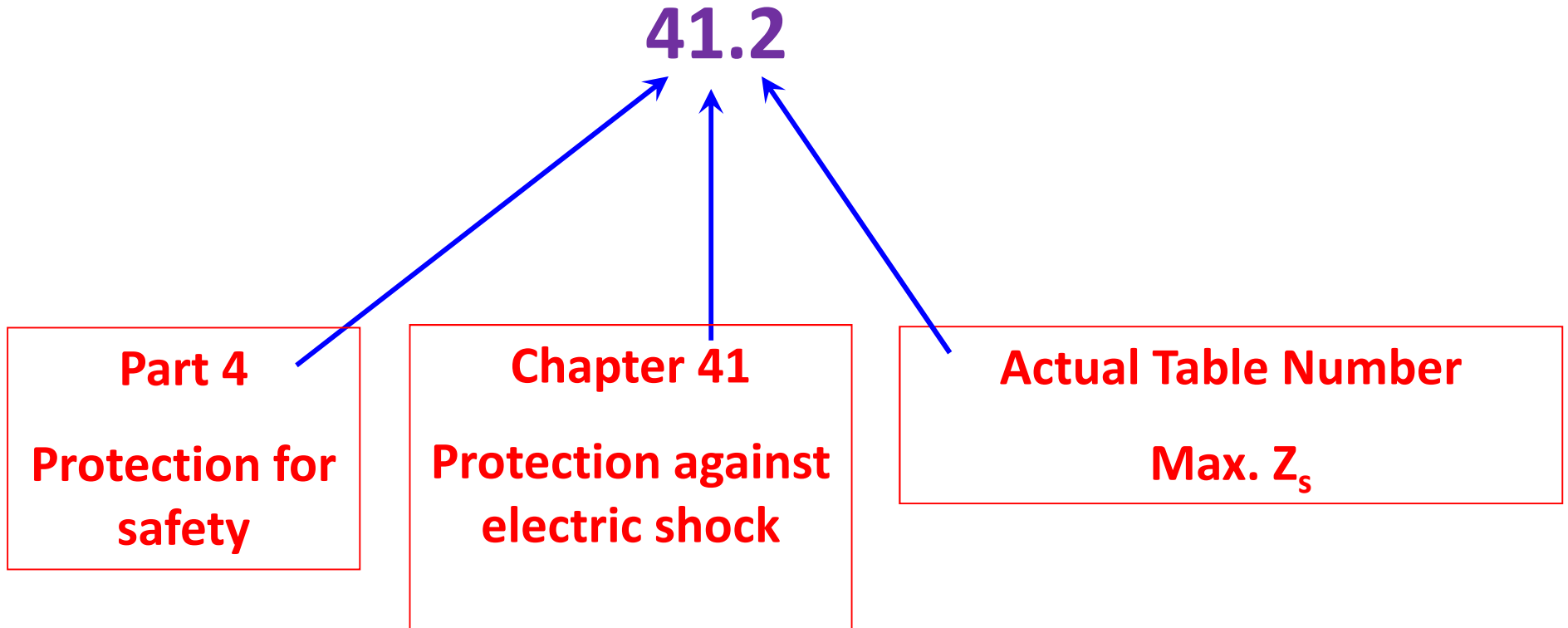
**Protection for  
safety**

**Chapter 41**

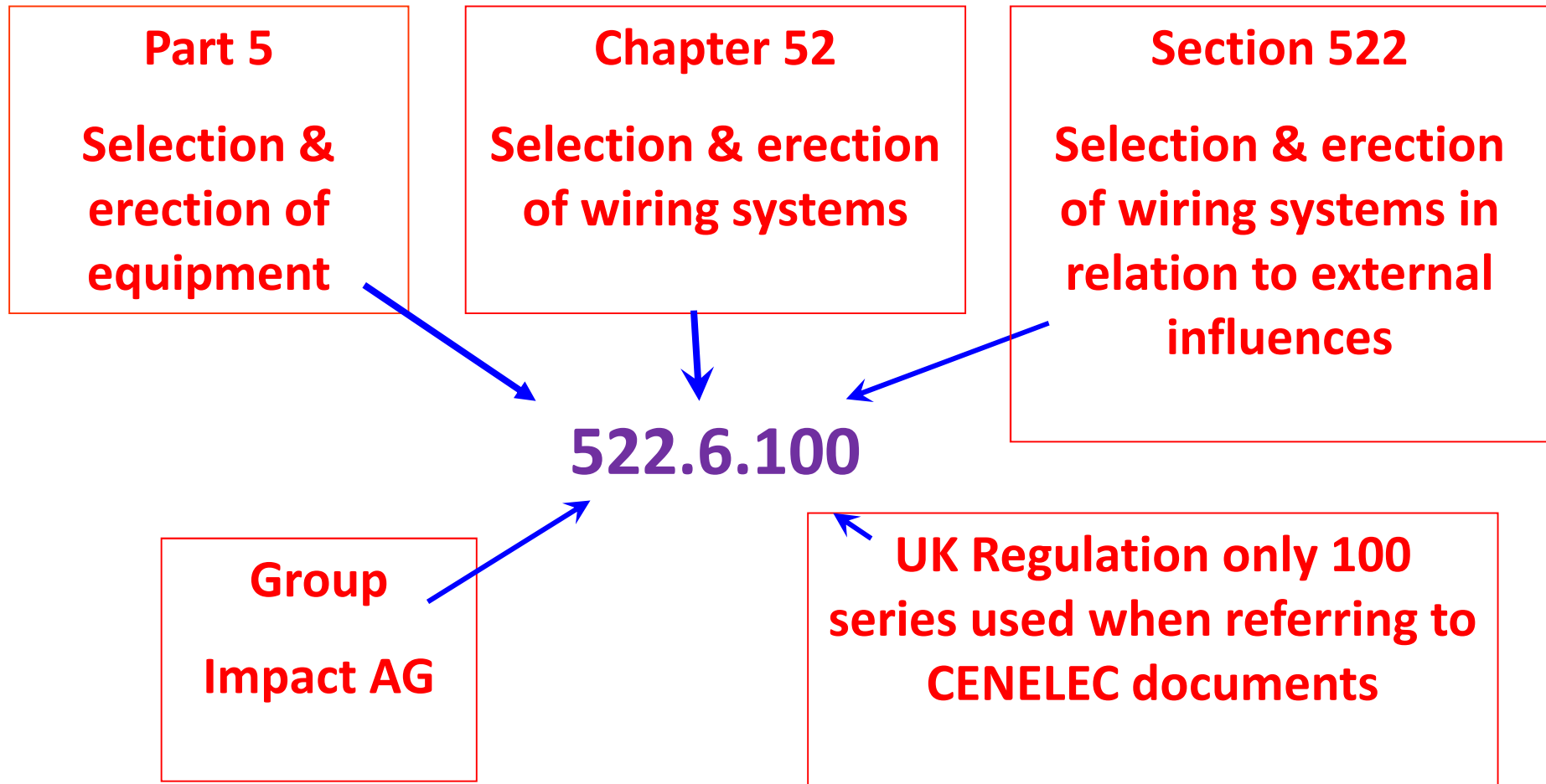
**Protection against  
electric shock**

**Actual Table Number**

**Max.  $Z_s$**



# Regulation Numbering UK



# Change to fuse designations

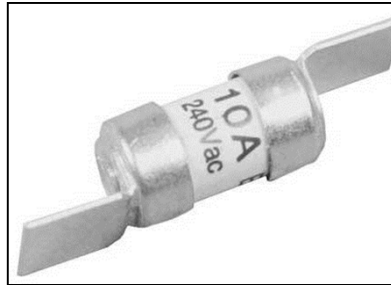
- Removal of BS 1361
- Replaced with **BS 88-3** & new ratings (ie: 16A, 32A etc.)
- New time/current characteristic graphs in **Appendix 3**
- Changes to ratings means new maximum earth fault loop impedance values **Tables 41.2 & 41.4**
- Original BS 88 fuses now BS 88-2



# New Fuse Designations



**General  
Purpose BS  
88-2 gG  
System E  
(Bolted)**



**General  
Purpose BS  
88-2 gM  
System G  
(Clip In)**



**BS 88-3**

**System C**

**old 1361**



**BS 3036**

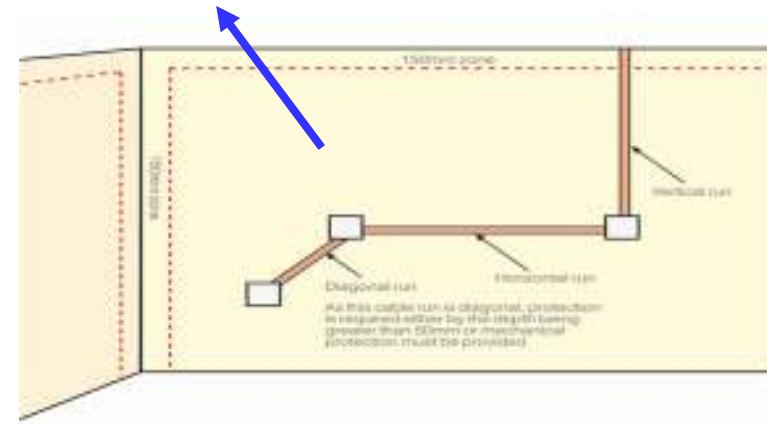


**BS 1362**

**Changes to cables concealed in a wall  
or a partition  
522.6.100**

Cables to be 50mm deep OR

- i. Incorporate an earthed metal covering i.e. MI  
OR
- ii. Enclosed in earthed metal conduit OR
- iii. Enclosed in earthed trunking or ducting OR
- iv. Mechanically protected (capping not sufficient,  
must withstand penetration by nail, screws  
etc)
- v. ALL to be in safe zones
- vi. Form part of a SELV or PELV circuit (NEW)



**Not allowed unless 50mm  
deep or i,ii,iii,iv  
are achieved**

Additional protection by RCD shall be provided if i, ii, iii or iv above not complied with. RCD to comply with regulation 415.1.1

# New section 710 Medical Locations

Applies to:- hospitals, dentists, private clinics, healthcare centres etc

- Areas grouped (0,1,2) with different requirements for each
- Requirement to assess what procedures take place to be able to determine groups
- Installation of insulation monitoring devices
- Installation of protective conductors of maximum resistance values
- Need to ensure unwanted tripping of RCD's
- Lower disconnection times
- Emergency safety sources required



# New section 729 Operating & Maintenance Gangways

**Applies to:- switch rooms etc. where access is restricted to skilled/instructed persons**

- **Minimum access required, measurements given**
- **Clearly Marked Areas**
- **Easy access & Egress**



# Chapter 62 & Appendix 6 Model Forms for Certification & Reporting

- New forms for periodic inspection & testing
- Now issue an **Electrical Installation Condition Report**
- Form for domestic & similar **up to 100A**
- New schedule of inspection results & schedule of test results
- New observation codes **C1, C2 & C3**
- Electrical installation certificate **inc** schedule of inspection results for **new work** & minor electrical installation works certificate – **NO CHANGE**







# New Codes on ECR's

## CODES:

**C1** Danger exists, Risk of Injury, rectify Immediately

**C2** Potentially dangerous, remedial action required as a matter of Urgency

**C3** Improvement recommended

# Changes to Appendices

## **Appendix 11 - Effects of Harmonic Currents on Balanced 3 Phase Systems**

**Deleted by BS 7671:2008 (2011) moved to App.4 para. 5.5 & 5.6**

## **Appendix 12 -Voltage Drop in Consumers Installations**

**Deleted by BS 7671:2008 (2011) moved to App.4 para. 6.4**

# Appendix 16 (Informative)

## Devices for Protection Against Overvoltage

- Examples of connecting Surge Protective Devices to different systems
- Different types of SPD & the locations they are required





# Questions...

Please feel free to email any questions you may have on the changes to BS7671.

