

# POCKET GUIDE 18

## Maximum measured values of earth fault loop impedance ( $Z_s$ )

The values of maximum earth fault loop impedance ( $Z_s$ ) given in Tables 41.2, 41.3 and 41.4 in Chapter 41 of BS 7671: 2008, for commonly-used overcurrent protective devices, should not be exceeded when the conductors are at their normal operating temperature (such as up to 70 °C for thermoplastic insulated conductors).

However, values of  $Z_s$  are generally measured under no-load conditions, when the conductors are at ambient temperature (usually not to exceed 20 °C) and their resistance is therefore lower than when at normal operating temperature.

Where this is the case, then as indicated in Appendix 14 of BS 7671, the fault protection requirements of Regulations 411.4.5 (TN systems) or 411.5.4 (TT systems) are considered to be met when the measured value of  $Z_s$  does not exceed 80% of the applicable maximum value (such as that given in Tables 41.2, 41.3 and 41.4 of BS 7671).

Tables 1 and 2 of this pocket guide give maximum measured values of  $Z_s$  for fuses and circuit-breakers or the overcurrent characteristic of RCBs, equal to 80% (rounded down) of the applicable maximum values given in Tables 41.2, 41.3 and 41.4 of BS 7671.

**Table 1 – Maximum measured values of  $Z_s$  for fuses**

Rated current (A)	Fuses					
	BS 88 (gG) Parts 2 and 6		BS 1361 or BS 1362		BS 3036	
	0.4 s	5 s	0.4 s	5 s	0.4 s	5 s
3	N/A	N/A	13.12	18.56	N/A	N/A
5	N/A	N/A	8.35	13.11	7.66	14.16
6	6.81	10.81	N/A	N/A	N/A	N/A
10	4.08	5.93	N/A	N/A	N/A	N/A
13	N/A	N/A	1.94	3.06	N/A	N/A
15	N/A	N/A	2.63	4.00	2.04	4.27
16	2.16	3.34	N/A	N/A	N/A	N/A
20	1.41	2.33	1.36	2.24	1.41	3.06
25	1.15	1.84	N/A	N/A	N/A	N/A
30	N/A	N/A	0.92	1.47	0.87	2.11
32	0.83	1.47	N/A	N/A	N/A	N/A
40	0.65	1.08	N/A	N/A	N/A	N/A
45	N/A	N/A	0.46	0.76	0.47	1.27
50	0.48	0.83	N/A	N/A	N/A	N/A
60	N/A	N/A	N/A	0.55	N/A	0.89
63	0.36	0.65	N/A	N/A	N/A	N/A
80	0.24	0.46	N/A	0.39	N/A	N/A
100	0.18	0.33	N/A	0.29	N/A	0.42
125	0.14	0.26	N/A	N/A	N/A	N/A

Note: Values of  $Z_s$  for disconnection times other than 0.4 s or 5 s shown may be required by BS 7671. For example, 0.2 s may be required for a 230 V final circuit not exceeding 32 A in a TT system (Table 41.1 refers).



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# Niceic Pocket Guide

**Scaramouche**

## Niceic Pocket Guide:

**Building Regulations Pocket Book** Ray Tricker, Samantha Alford, 2022-09-06 The new edition of the Building Regulations Pocket Book has been fully updated with recent changes to the UK Building Regulations and Planning Law. This handy guide provides you with all the information you need to comply with the UK Building Regulations and Approved Documents On site in the van in the office wherever you are this is the book you'll refer to time and time again to check the regulations on your current job. Part 1 provides an overview of the Building Act. Part 2 offers a handy guide to the dos and don'ts of gaining the Local Council's approval for Planning Permission and Building Regulations Approval. Part 3 presents an overview of the requirements of the Approved Documents associated with the Building Regulations. Part 4 is an easy to read explanation of the essential requirements of the Building Regulations that any architect, builder or DIYer needs to know to keep their work safe and compliant on both domestic and non domestic jobs. Key new updates to this second edition include but are not limited to changes to the fire regulations as a result of the Hackitt Review, updates to Approved Document F and L, new Approved Documents covering Overheating AD O and Infrastructure for the charging of electric vehicles AD S, amendments to and the reinstatement of the Manual to the Building Regulations. This book is essential reading for all building contractors and sub contractors, site engineers, building engineers, building control officers, building surveyors, architects, construction site managers as well as DIYers and those who are supervising work in their own home.

**The Pocket Guide to Building Your Own Home** David Snell, 2012-06-30 Hundreds of thousands of us renovate, convert, extend and improve our homes each year and one third of all new detached homes are self built. If you're looking to build your own property from scratch or work on your existing home this is the book for you. Home building expert and bestselling author David Snell draws on his expertise and personal experiences of building his own bungalow to bring together the essential information that you need when building your property. Covering everything from budgeting and finance to evaluating the land and dealing with suppliers this comprehensive guide takes you through the basics to ensure that you are well equipped to deal with any challenges or problems that may arise. Fully up to date and packed with authoritative advice this practical handbook is essential reading for everyone from those building their own home to anyone planning some home improvements.

**IET Wiring Regulations: Electric Wiring for Domestic Installers** Brian Scaddan, 2018-09-03 This book is essential reading for anyone studying towards Domestic Installer status with an approval body such as NICEIC, NAPIT or ELECSA in line with Part P of the Building Regulations and also serves as a handy pocket guide to best practice for electricians. Although not intended as a DIY manual non qualified persons will also find it useful reading. The how to guide for home wiring to professional standards. Now with more on LED lighting. Essential reading for serious DIY electrical installation basic plumbing, heating systems, TV and security alarm installation. Up to date with the 18th Edition of the IET Wiring Regulations.

[Willing's Press Guide](#), 2002 Coverage of publications outside the UK and in non English languages expands steadily until

in 1991 it occupies enough of the Guide to require publication in parts *Production Safety for Film, Television and Video* Robin Small,2000-07-03 Covering all aspects of production safety this is an invaluable reference guide for the independent programme maker freelancer manager producer tutor and student filmmaker Robin Small identifies all the major risks and gives advice on how to control and or eliminate them Each hazard section includes useful references to the relevant legislation documents and licences as well as addresses of organisations for essential advice and recommended further reading An appendix lists samples of vital certificates with visual references provided on [www.focalpress.com](http://www.focalpress.com) Important information about hazard identification risk assessment and safety policy is provided in the chapters covering legislation health and safety management personal protective equipment and insurance Particular hazards are then split into individual sections for ease of reference These hazards include Asbestos Cranes Explosives and pyrotechnics Food and catering Manual handing and lifting Visual display screens Working at heights The appendices provide comprehensive contact information for UK and European Heath and Safety sources They also include sample forms to draw up your own safety system Robin Small is Senior Lecturer in Television Media Department at the University of Huddersfield

**Electrical Times**,1957-10 *The Electrical Review*,1968 **Willing's Press Guide and Advertisers' Directory and Handbook**,1991 Pocket Guide to

BASIC Roger Hunt,1982 **FX**,2004 **Gas Engineering and Management**,1982 Pocket Guides , *The Pocket Guides* Halifax Law Classes (HALIFAX),1932

**Pocket Guides** United States. Army Service Forces. Special Service Division,1942 *Insight pocket guides* ,1993 17th Edition IET Wiring Regulations Brian Scaddan,2017-06-28 This book has for many years been the standard guide to the practical aspects of domestic electrical wiring It explains how to carry out work safely and correctly in a step by step manner Essential reading for anyone obtaining a Domestic Installer Scheme Qualification which relates to Part P of the Building Regulations this title also acts as a handy pocket guide to best practice for electricians Although not intended as a DIY manual non qualified persons will also find this book useful reading The how to guide for home wiring to professional standards Essential reading for serious DIY electrical installation plumbing heating systems TV and security alarm installation Up to date with the latest IET Wiring Regulations

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