

# Australian/New Zealand Standard™

## **Earth potential rise—Protection of telecommunications network users, personnel and plant**

### **Part 2: Application guide**



## **AS/NZS 3835.2:2006**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ET-007, Coordinating Committee on Power and Telecommunications. It was approved on behalf of the Council of Standards Australia on 10 April 2006 and on behalf of the Council of Standards New Zealand on 14 April 2006. This Standard was published on 27 September 2006.

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The following are represented on Committee ET-007:

Australian Communications and Media Authority  
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Electrical Regulatory Authorities Council  
Energy Networks Association  
NZCCPTS  
Telecommunications Carriers

Additional Interests:

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AS/NZS 3835.2:2006

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**Earth potential rise—Protection of  
telecommunications network users,  
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**Part 2: Application guide**

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## PREFACE

This Standard was prepared by the joint Standards Australia/Standards New Zealand Technical Committee ET-007-01, Earth Potential Rise, Coordination of Power and Telecommunications Systems. This Standard supersedes in part the EPR Code, Issue 1, 1984 (published jointly by the Australian Telecommunications Commission ATC (now Telstra Corporation) and ESAA (now ENA Energy Network Association).

In New Zealand, this Standard supersedes the Application Guide for EPR, August 1989, published by the New Zealand Committee for the Co-ordination of Power and Telecommunications Systems (NZCCPTS).

The objective of this part of AS/NZS 3835 is to serve as an application guide for personnel responsible for safety in the application of AS/NZS 3835.1 Part 1: *Code of practice*.

Preparation of this Standard was undertaken to update the technical content of the original EPR Code and to remove those contractual and procedural matters better dealt with elsewhere.

This Standard makes reference to publications prepared by the NZCCPTS. Enquiries concerning these publications should be directed to the secretary of NZCCPTS. Contact details for the secretary and details of NZCCPTS publications are available at the web site <http://www.nzccpts.co.nz>. Some publications are available as free downloads from the above web site.

This Standard is Part 2 of a Series dealing with Earth Potential Rise (EPR). This Standard when complete will consist of the following parts:

### AS/NZS

|        |  |
|--------|--|
| 3835   | Earth potential rise—Protection of telecommunications network users, personnel and plant   |
| 3835.1 | Part 1: Code of practice   |
| 3835.2 | Part 2: Application guide (this Standard)  |
| 3835.3 | Part 3: Isolation arrangements for paired cable telemetering telecontrol service in LV areas and HV sites                          |
| HB 219 | Earth potential rise—Protection of telecommunications network users, personnel and plant—Worked examples for the application guide |

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An informative appendix is only for information and guidance.

Statements expressed in mandatory terms in notes to figures, are deemed to be requirements of this Standard. ‘Shall’ indicates a requirement is mandatory, while ‘should’ indicates a recommendation and good practice.

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