

AS 3835.3(Int)—1998  
**(Expires 5 September 2000)**

Interim Australian Standard™

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**Coordination of power and  
telecommunications—  
Earth Potential Rise (EPR)**

**Part 3: Isolation arrangements  
for paired cable telemetering/  
telecontrol services in LV areas  
and HV sites**

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This Interim Australian Standard was prepared by Committee ET/7, Coordinating Committee on Power and Telecommunications (CCPT). It was approved on behalf of the Council of Standards Australia on 2 July 1998 and published on 5 September 1998.

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The following interests are represented on Committee ET/7:

Australian Communications Authority  
Electrical regulatory authorities  
Electricity Supply Association of Australia  
Telstra Corporation  
Optus Communications  
New Zealand Committee for the Coordination of Power and Telecommunications Systems

Additional interests participating in preparation of Standard:

Queensland Rail

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First published as AS 3835.3(Int)—1998.

## PREFACE

This Interim Australian Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ET/7, Coordinating Committee on Power and Telecommunications (CCPT), and is the result of a consensus among the representatives on the Committee that it be produced as an Interim Australian Standard.

It is based on a draft from the NSW Power Co-ordination Group of Telstra Corporation, endorsed by the Market Participation Liaison Working Group of the NSW State Electricity Market (SEM), including NSW electricity utilities, in anticipation of further lowering of the entry threshold to the open competitive electricity market.

The practices described herein are one way of addressing the technical problems and hazards inherent in bringing paired-cable telecommunications into close proximity with electricity mains, whether in LV areas or HV sites. Other methods and practices might be equally satisfactory and could be included in a future revision of this Interim Standard.

This Interim Standard is a Part of the following series of publications:

### AS/NZS

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|--------|---|
| 3835   | Coordination of power and telecommunications—Earth Potential Rise (EPR) |
| 3835.1 | Part 1: Code for the protection of persons (in course of preparation)*  |
| 3535.2 | Part 2: Application guide to the Code (in course of preparation)        |

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| 3835.3(Int) | Part 3: Isolation arrangements for paired cable telemetering/telecontrol services in LV areas and HV sites (this Interim Standard) |
|-------------|--|

Attention is drawn to other effects of power lines on telecommunications services, namely low frequency induction of hazardous voltages and induction of noise. SAA publications and an ATC/ESAA publication on these subjects are listed in Appendix A.

Mandatory statements in notes to figures are deemed to be requirements of this Interim Standard.

Standards Australia invites comment on this Interim Standard from persons and organizations concerned with this subject. The date of expiry is two years after publication, at which time this Interim Standard will either be confirmed, withdrawn or revised in the light of public comment.

During the life of the document the Committee will monitor all comment as it is received.

Attention is drawn to the fact that this document is an Interim Australian Standard and should be regarded as a developmental Standard and liable to future alteration.

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\* Pending publication of AS/NZS 3835.1, reference should be made to the 1984 ESAA/Telstra publication *Earth Potential Rise* (see Appendix A).

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## CONTENTS

	<i>Page</i>
<b>SECTION 1 SCOPE AND GENERAL</b>	
1.1 SCOPE .....	4
1.2 APPLICATION .....	4
1.3 REFERENCED AND RELATED DOCUMENTS .....	4
1.4 DEFINITIONS—GENERAL .....	4
1.5 DEFINITIONS RELATING TO HV POWER CIRCUITS .....	5
1.6 ABBREVIATIONS RELATING TO COMMUNICATIONS CABLING .....	5
<b>SECTION 2 GENERAL REQUIREMENTS</b>	
2.1 THE NEED FOR ISOLATION .....	6
2.2 HV ISOLATION DEVICES .....	7
2.3 ARRANGEMENT .....	8
2.4 TELECOMMUNICATIONS EQUIPMENT IN AN EPR HAZARD ZONE ....	8
<b>SECTION 3 TELECOMMUNICATIONS SERVICES IN LV AREAS</b>	
3.1 GENERAL .....	9
3.2 AERIAL SERVICES TO LV POLES .....	10
3.3 UNDERGROUND SERVICES TO LV POLES .....	16
3.4 UNDERGROUND SERVICES INDOORS .....	23
<b>SECTION 4 TELECOMMUNICATIONS SERVICES IN HV SITES</b>	
4.1 REMOTE INTERROGATION AND DEMAND MANAGEMENT OF A HV SYSTEM .....	30
4.2 PSTN TELEPHONE SERVICES .....	30
4.3 UNDERGROUND SERVICES TO HV PLANT ON EXCLUSIVE HV POLES	31
4.4 UNDERGROUND SERVICE TO PLANT ON A HV POLE WITH A RECLOSER AND A DISCONNECTOR .....	36
4.5 UNDERGROUND SERVICES TO HV PLANT INDOORS .....	38
<b>SECTION 5 TELECOMMUNICATIONS SERVICES IN PARTICULAR SITUATIONS</b>	
5.1 SERVICES ON CONDUCTIVE POLES .....	39
5.2 SERVICES ON SWER SUPPLY POLES .....	39
5.3 SERVICES ON SINGLE-PHASE HV SPUR SUPPLY POLES .....	39
5.4 UNDERGROUND SERVICES TO PAD-MOUNTED TRANSFORMERS ....	40
5.5 OTHER APPLICATIONS .....	41
<b>APPENDICES</b>	
A REFERENCED AND RELATED DOCUMENTS .....	42
B DEFINITIONS FOR HV POWER CIRCUIT CATEGORIES .....	43
C INSTALLATION OF TELECOMMUNICATIONS EQUIPMENT IN HV SITES	45
D THE DANGER SIGN .....	50
E EXAMPLES: POLES AND BUILDINGS LOCATED IN AN EPR ZONE ....	51
F DETERMINATION OF THE EPR HAZARD LEVEL: ISOLATION CHECK LIST .....	52
G INSTALLATION PROCEDURES .....	54

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