

AS 1265—1990  
IEC 137—1984

Australian Standard<sup>®</sup>

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**Bushings for alternating voltages  
above 1000 V**

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This Australian standard was prepared by Committee EL/8, Power Transformers. It was approved on behalf of the Council of Standards Australia on 20 February 1990 and published on 16 July 1990.

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The following interests are represented on Committee EL/8:

Australian Electrical and Electronic Manufacturers Association  
Confederation of Australian Industry  
Electrical testing laboratories  
Electricity Supply Association of Australia  
Electricity Supply Engineers Association of N.S.W.  
Electricity Trust of South Australia  
Institute of Technology, S.A.  
Institution of Engineers, Australia  
Railways of Australia Committee

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## PREFACE

This Standard was prepared by the Standards Australia Committee on Power Transformers to supersede AS 1265—1974, Bushings for alternating voltages above 1000 V. It is identical with and has been reproduced from IEC 137 (1984), Bushings for alternating voltages above 1000 V. Modifications to the Standard required to suit Australian conditions are indicated by a rule in the margin, and detailed in Australian Appendix A, additionally, some minor editorial errors in the IEC Standard have been corrected.

Statements expressed in mandatory terms in notes to Clauses are deemed to be requirements of this Standard.

For the purposes of this Australian Standard, the text should be modified as follows:

- (a) In accordance with Australian Appendix A.
- (b) *References*. The references to IEC Publications should be replaced by references to Australian Standards as follows:

<i>Reference to IEC Publication</i>		<i>Appropriate Australian Standard</i>	
IEC		AS	
38	IEC standard voltages	2926	Standard voltages—Alternating (50 Hz) and direct
56	High-voltage alternating-current circuit-breakers	2006	High voltage a.c. switchgear and controlgear—Circuit breakers for rated voltages above 1000 V
59	IEC standard current ratings		No Australian equivalent
60	High voltage test techniques	1931	High voltage testing techniques
60-1	Part 1: General definitions and test requirements	1931.1	Part 1: General definitions, and test requirements, test procedures and measuring devices
71	Insulation co-ordination	1824	Insulation coordination, (phase-to-earth and phase-to-phase above 1 kV)
71-1	Part 1: Terms definitions, principles and rules	1824.1	Part 1: Basic principles, standard insulation levels and test procedures
76	Power transformers	2374	Power transformers
76-5	Part 5: Ability to withstand short circuit	2374.5	Part 5: Ability to withstand short-circuit
216	Guide for the determination of thermal endurance properties of electrical insulating materials		No Australian equivalent
216-2	Part 2: List of materials and available tests		No Australian equivalent
233	Tests on hollow insulators for use in electrical equipment	1372	Tests on hollow insulators of ceramic material or glass for use in electrical equipment for voltages above 1000 V.
270	Partial discharge measurements	1018	Partial discharge measurements
354	Loading guide for oil-immersed transformers	1078	Guide to loading of oil-immersed transformer
505	Guide for the evaluation and identification of insulation systems of electrical equipment		No Australian equivalent
506	Switching impulse tests on high-voltage insulators		No Australian equivalent
517	Gas insulated metal-enclosed switchgear for rated voltages of 72.5kV and above	2263	High-voltage a.c. switchgear and controlgear—Gas-insulated metal-enclosed switchgear for rated voltages of 72.5 k and above

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The following Standards referred to in Australian Appendix A:

C.I.S.P.R.	18-2 Radio interference characteristics of overhead power lines and high voltage equipment
AS 1052	Electromagnetic interference—Measuring apparatus and measurement methods.

Details concerning the application of tests in Section 7 and 8 are given in Australian Appendix B (for ceramic and other inorganic materials) and Australian Appendix C (for organic materials).

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