

Australian Standard™

**Radio interference test on high-voltage
insulators**

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The following are represented on Committee EL-010:

Australasian Railway Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Porcelain Insulators Association
Electricity Engineers Association (New Zealand)
Energy Networks Association

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EL-010, Overhead Lines. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

The objective of this Standard is to specify radio interference tests on high-voltage insulators.

This Standard is identical with, and has been reproduced from IEC 60437, Ed. 2.0 (1997), *Radio interference test on high-voltage insulators*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
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CONTENTS

	<i>Page</i>
1 Scope	1
2 Normative references	1
3 Definitions	2
4 Measurement frequency	2
5 Radio noise limits and test voltage	2
6 Measuring instruments	3
6.1 Standard CISPR measuring apparatus	3
6.2 Other measuring apparatus	3
7 Measuring circuit	3
8 Requirements for the test voltage	3
9 Atmospheric conditions	3
10 Test area	4
11 Arrangement of insulators for test	4
11.1 Mounting of insulators	4
11.2 Condition of insulators before test	5
12 Insulators for type test	5
12.1 Number of insulators	5
12.2 String insulator units	5
13 Procedure for type tests	5
13.1 Checking and calibration of the test circuit	5
13.2 Voltage application and RI characteristics	5
13.3 Acceptance criterion	6
14 Procedure for sample tests	6
14.1 Insulators subject to sample tests	6
14.2 Number of samples	6
14.3 Mounting arrangement	6
14.4 Test procedure	6
14.5 Acceptance criterion	6
15 Test report	7

STANDARDS AUSTRALIA

Australian Standard**Radio interference test on high-voltage insulators**

1 Scope

This International Standard specifies the procedure for a radio interference (RI) test carried out in a laboratory on clean and dry insulators at a frequency of 0,5 MHz or 1 MHz or, alternatively, at other frequencies between 0,5 MHz and 2 MHz.

In service the RI characteristics of an insulator may be modified by the ambient conditions, particularly rainfall and other moisture, and by pollution. It is not considered feasible to specify reproducible test conditions to simulate a range of ambient conditions. Hence only tests on clean and dry insulators are specified in this standard.

NOTE – The effects of insulator surface conditions, including pollution, are presented in Amendment 1 of CISPR 18-2.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

References to international standards that are struck through in this clause are replaced by references to Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is identified as such.

~~IEC 60050(471):1984, *International Electrotechnical Vocabulary (IEV) — Chapter 471: Insulators*~~

AS 1852.471, *International electrotechnical vocabulary—Insulators*
(identical to IEC 60050(471):1984)

~~IEC 60060-1:1989, *High-voltage test techniques — Part 1: General definitions and test requirements*~~

AS 1931.1, *High-voltage test techniques—General definitions and test requirements*

~~IEC 60137:1995, *Insulated bushings for alternating voltages above 1 000 V*~~

AS 1265, *Bushings for alternating voltages above 1000 V*

~~IEC 60168:1994, *Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1 000 V*~~