

AS 3720—1989
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Australian Standard[®]

**Measurement of power-frequency
electric fields**

This Australian Standard was prepared by Committee EL/7, Power Switchgear. It was approved on behalf of the Council of Standards Australia on 20 April 1989 and published on 13 October 1989.

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Australian British Chamber of Commerce
Australian Electrical and Electronic Manufacturers Association
Electricity Supply Association of Australia
Institution of Engineers, Australia
Railways of Australia Committee
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PREFACE

This Standard was prepared by the Standards Australia Committee on Power Switchgear.

It is identical with and has been reproduced from IEC 833 (1987), *Measurement of power-frequency electric fields*.

It is intended primarily to specify standard methods for use by power authorities in measuring electric field strengths near the ground plane in the vicinity of high voltage lines and conductors.

At locations closer to the high voltage conductors, where the field is non-uniform, power authorities have used the following methods, not covered by this Standard:

- (a) The determination of maximum field strength using three-coordinate probes.
- (b) The determination of average field strength using body current measurements.

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