

Australian Standard[®]

**Insulator and conductor fittings for
overhead power lines**

**Part 3: Performance and general
requirements for helical fittings**



This Australian Standard® was prepared by Committee EL-010, Overhead Lines. It was approved on behalf of the Council of Standards Australia on 4 November 2008. This Standard was published on 12 February 2009.

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- 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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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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OF

AS 1154.3—2009

**Insulator and conductor fittings for overhead power lines
Part 3: Performance and general requirements for helical fittings**

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PREFACE

This Standard was prepared by the Standards Australia Committee EL-010, Overhead Lines, to supersede AS 1154.3—1985.

This Standard is one of a two-part series covering insulator and conductor fittings for overhead lines as follows:

Part 1: Performance, material, general requirements and dimensions, which combines the former Part 1 and Part 2.

Part 3: Performance and general requirements for helical fittings (this Standard).

The nature of helical fittings is such that they may be used for applications other than those for which they were specifically designed. In this Standard, only the primary function is considered and tests appropriate to that function are stipulated.

The use of fittings for purposes other than those for which they were designed is a matter for negotiation between the purchaser and supplier.

For the purpose of this Standard, helical fittings are separated into two main groups, those for bare conductors and those for insulated conductors. Helical fittings for bare conductors are further subdivided into three classes as follows:

- (a) Fittings that act as anchors to attach conductors under tension to structures and fittings used for joining two conductors that will be used under tension.
- (b) Fittings that grip a conductor and resist longitudinal slip and attach the conductor to an insulator set or other support device.
- (c) Fittings intended to protect a conductor from the electrical and/or mechanical stresses to which it may be subjected in service. This class also includes fittings intended for the repair of damaged conductors, to restore full electrical and mechanical integrity.

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