AS 61112:2026

Australian STANDARD®

STANDARDS Australia

Live working — Electrical insulating blankets (IEC 61112:2009 (ED. 2.0) MOD)



AS 61112:2026

This Australian Standard® was prepared by EL-068, Live Working. It was approved on behalf of Standards Australia's Standards Development and Accreditation Committee on 30 November 2025.

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The following are represented on Committee EL-068:

Australian Electric Vehicle Association
Australian Industry Group
Communications, Electrical and Plumbing Union - Electrical Division
Consumers' Federation of Australia
Electric Energy Society of Australia
Electrical Trade Union (Vic)
Energex
Energy Networks Australia
Engineers Australia
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Master Electricians Australia
National Electrical and Communications Association
Victorian WorkCover Authority (WorkSafe Victoria)

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Live working — Electrical insulating blankets (IEC 61112:2009 (ED. 2.0) MOD)

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This page explains the meaning of the language and structure of this Standard.

Refer to Standards Australia's Standardisation Guide 006 for more details about drafting rules.

Australian and Australian/New Zealand Standards are voluntary unless they are referenced in legislation or called up in contracts.

Requirements

To conform to a Standard, all requirements in the Standard need to be met.

A requirement is any statement in the Standard which uses the word "shall".

Recommendations, permissions and possibilities

The following words are commonly used in Standards, but statements using them do not have to be followed to conform to the Standard:

(a) "should" means that something is recommended.

(b) "may" means that something is permitted.

(c) "can" means that something is possible.

Structure of Standards

A Standard always has the following parts:

(i) The Preface states who developed the Standard, what the Standard is aiming to do, and how it relates to other documents.

(ii) The Scope states what the Standard is about, what it covers and what it does not cover.

(iii) The Normative references clause lists other documents that are referenced in the Standard as part of requirements.

(iv) The Terms and definitions clause defines important terms to help with understanding the Standard.

A Standard may also include other parts, such as the following:

(1) A normative appendix sets additional requirements that need to be conformed to.

(2) An informative appendix provides additional information or guidance. They usually do not contain requirements. If an informative appendix does contain requirements, the Standard will explain when those requirements apply.

(3) A Bibliography lists documents referenced in the Standard but not as part of requirements.

Many Standards include notes. Notes provide recommendations and/or guidance only. They never contain requirements.

This Standard is a modified adoption of an International Standard. It makes changes to the international text.

The changes to the international text are shown in boxes in the text. These boxes have the heading "National Variations".

To use this Standard in Australia/New Zealand, the changes in the national variation boxes need to be followed.

Preface

This Standard was prepared by the Standards Australia Committee EL-068, Live Working, to supersede AS 4202—1994, *Insulating covers for electrical purposes*.

The objective of this document is to specify electrical insulating blankets for the protection of workers from accidental contact with live or earthed electrical conductors, apparatus or circuits and avoidance of short circuits on electrical installations.

This document is an adoption with national modifications, and has been reproduced from, IEC 61112:2009, *Live working – Electrical insulating blankets* (ED. 2.0). The modifications are set out in national variations boxes which give instructions where the IEC text is to be modified for use in Australia. Due to IEC copyright policy it is not possible to directly modify the IEC content.

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Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

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International Standard IEC 61112 has been prepared by IEC technical committee 78: Live working.

This second edition cancels and replaces the first edition, published in 1992, and its Amendment 1 (2002). This edition constitutes a technical revision.

It includes the following significant technical changes from the previous edition:

– general review of the requirements and test provisions;

– limitation of the scope in terms of the minimum width of electrical insulating blankets in rolls;

– introduction of a definition of electrical insulating blankets including sheeting in various shapes and in rolls;

– introduction of Class 00;

– withdrawal of category S and introduction of category R;

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– clarification of the way electrical insulating blankets in rolls are covered by the test procedures;

– specification of standard and alternative types of electrodes for the proof test;

– modification of the test procedures for low and extremely low temperature by replacing the dielectric proof test by a withstand test in the sanction;

– modification of the test procedures for acid and oil resistance by specifying the use of test pieces and by replacing the dielectric proof test by a withstand test in the sanction;

– specification of liquid 102 for the oil resistance test and harmonization of the mechanical test sanction with the acid resistance test;

– preparation of the elements of evaluation of defects, and general application of IEC 61318 Ed.3;

– revision of existing annexes;

– deletion of Annexes D and F not applicable according to IEC 61318 Ed.3;

– introduction of a new normative Annex F on classification of defects.

The text of this standard is based on the following documents:

FDIS	Report on voting
78/785/FDIS	78/799/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

• reconfirmed,

• withdrawn,

• replaced by a revised edition, or

• amended.

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INTRODUCTION

This International Standard has been prepared according to the requirements of IEC 61477 where applicable.

The product covered by this standard may have an impact on the environment during some or all stages of its life cycle. These impacts can range from slight to significant, be of short-term or long-term, and occur at the global, regional or local level.

Except for a disposal statement in the instructions for use, this standard does not include requirements and test provisions for the manufacturers of the product, or recommendations to the users of the product for environmental improvement. However, all parties intervening in its design, manufacture, packaging, distribution, use, maintenance, repair, reuse, recovery and disposal are invited to take account of environmental considerations.

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Australian Standard®

Live working — Electrical insulating blankets (IEC 61112:2009 (ED. 2.0) MOD)

1 Scope

This International Standard is applicable to electrical insulating blankets for the protection of workers from accidental contact with live or earthed electrical conductors, apparatus or circuits and avoidance of short circuits on electrical installations.

Electrical insulating blankets in rolls having a width lower than 50 mm are not covered by this standard.

NOTE 1 For a.c. electrical classification, as well as d.c. use, see 4.2.

NOTE 2 This standard gives a.c. test provisions. There is limited history for use in d.c. applications.

NOTE 3 See Annex A for suggested maximum voltage use.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

IEC 60060-2, *High-voltage test techniques – Part 2: Measuring systems*

IEC 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 60212:1971, *Standard conditions for use prior to and during the testing of solid electrical insulating materials*

IEC 60417, *Graphical symbols for use on equipment*

IEC 61318, *Live working – Conformity assessment applicable to tools, devices and equipment*

IEC 61477, *Live working – Minimum requirements for the utilization of tools, devices and equipment*

ISO 2592, *Petroleum and related products — Determination of flash and fire points — Cleveland open cup method*

ISO 2977, *Petroleum products and hydrocarbon solvents — Determination of aniline point and mixed aniline point*

ISO 3104, *Petroleum products — Transparent and opaque liquids — Determination of kinematic viscosity and calculation of dynamic viscosity*

ASTM D 3767:2003, *(reapproved 2008):Standard practice for rubber – Measurement of dimensions*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61318 and the following apply.

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