

Australian Standard™

Electrical installations in ships

**Part 376: Cables for control and
instrumentation circuits 150/250 V
(300 V)**



This Australian Standard was prepared by Committee EL-003, Electric Wires and Cables. It was approved on behalf of the Council of Standards Australia on 9 November 2005.
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The following are represented on Committee EL-003:

Australasian Railway Association
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Canterbury Manufacturers Association New Zealand
Department of Defence (Australia)
Department of Primary Industries, Mine Safety (NSW)
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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EL-003, Electric Wires and Cables. 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 the constructional and test requirements for shipboard and offshore control and instrumentation cables with a voltage rating of 150/250 V (300 V).

This Standard is identical with, and has been reproduced from IEC 60092-376, Ed. 2 (2003), *Electrical installations in ships—Part 376: Cables for control and instrumentation circuits 150/250 V (300 V)*.

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.
- (b) In the source text 'IEC 60092' should read 'AS 60092'.
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The term 'informative' is used to define the application of the annex to which it applies. An informative annex is only for information and guidance.

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STANDARDS AUSTRALIA

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1 Scope and object

This part of IEC 60092 is applicable to screened and unshielded cables for control and instrumentation circuits on ships and offshore units. The cables have extruded solid insulation with a voltage rating of 150/250V (300V) (see Clause 4) and are intended for fixed installations.

The various types of cables are given in Clause 8. The construction requirements and test methods are expected to comply with those indicated in IEC 60092-350, unless otherwise specified in this standard.

NOTE Provision is made for fire resistant (limited circuit integrity) cables to be specified if required.

The object of this part of IEC 60092 is

- to standardise cables whose safety and reliability are ensured when they are installed in accordance with the requirements of IEC 60092-352;
- to lay down standard manufacturing requirements and characteristics of such cables directly or indirectly bearing on safety;
- to specify test methods for checking conformity with those requirements.

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.

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 60228, *Conductors of insulated cables*

~~IEC 60092-350, *Electrical installations in ships — Part 350: Shipboard power cables — General construction and test requirements*~~

AS 60092-350, *Electrical installations in ships, Part 350: Shipboard power cables—General construction and test requirements* (identical to IEC 60092-350)

~~IEC 60092-351, *Electrical installations in ships — Part 351: Insulating materials for shipboard and mobile and fixed offshore units power, telecommunication, and control data cables*~~

AS 60092.351, *Electrical installations in ships, Part 351: Insulating materials for shipboard and offshore units, power, control, instrumentation, telecommunications and data cables* (identical to IEC 60092-351)