

Australian/New Zealand Standard™

Electrical installations in ships

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



AS/NZS IEC 60092.376:2020

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee EL-003, Electric Wires And Cables. It was approved on behalf of the Council of Standards Australia on 26 November 2019 and by the New Zealand Standards Approval Board on 18 December 2019.

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The following are represented on Committee EL-003:

- Australian Cablemakers Association
- Australian Industry Group
- Electrical Compliance Testing Association of Australia
- Electrical Regulatory Authorities Council (Australia)
- Engineers Australia
- Institute of Electrical Inspectors (Australia)
- Master Electricians (New Zealand)
- National Electrical and Communications Association (Australia)
- Queensland University of Technology
- WorkSafe New Zealand

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-003, Electric Wires and Cables, to supersede AS 60092.376—2005, *Electrical installations in ships, Part 376: Cables for control and instrumentation circuits 150/250 V (300 V)*.

The objective of this Standard is to specify requirements for screened and unscreened 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) and are intended for fixed installations.

The constructional requirements and test methods are aligned with those indicated in AS/NZS IEC 60092.350, unless otherwise specified in this document.

This document covers the following:

- (a) Standardizes cables whose safety and reliability are ensured when they are installed in accordance with the requirements of IEC 60092-352.
- (b) Lays down standard manufacturing requirements and characteristics of such cables directly or indirectly bearing on safety.
- (c) Specifies test methods for checking conformity with those requirements.

This Standard is identical with, and has been reproduced from, IEC 60092-376:2017, *Electrical installations in ships — Part 376: Cables for control and instrumentation circuits 150/250 V (300 V)*.

As this document has been reproduced from an International Standard, the following applies:

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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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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL INSTALLATIONS IN SHIPS –

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

FOREWORD

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International Standard IEC 60092-376 has been prepared by subcommittee 18A: Electric cables for ships and mobile and fixed offshore units, of IEC technical committee 18: Electrical installations of ships and of mobile and fixed offshore units.

This third edition of IEC 60092-376 cancels and replaces the second edition published in 2003, of which it constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) new structure in line with IEC 60092-353 and IEC 60092-354;
- b) requirements and test methods have been divided in several tables for clarification (enhanced cold properties, oil resistance or resistance to drilling fluids) and have been aligned to IEC 60092-350;

c) the new testing methods for fire resistant cables are referenced in this document.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
18A/404/FDIS	18A/409/RVD

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

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

A list of all parts in the IEC 60092 series, published under the general title *Electrical installations in ships*, can be found on the IEC website.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.