

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical installations in ships –
Part 360: Insulating and sheathing materials for shipboard and offshore units,
power, control, instrumentation and telecommunication cables**

**Installations électriques à bord des navires –
Partie 360: Matériaux d'isolation et de gainage des câbles d'alimentation, de
commande, d'instrumentation et de télécommunication installés à bord des
navires et des unités en mer**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL INSTALLATIONS IN SHIPS –**Part 360: Insulating and sheathing materials for shipboard and offshore units, power, control, instrumentation and telecommunication cables**

FOREWORD

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International Standard IEC 60092-360 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 first edition cancels and replaces IEC 60092-351 Ed. 3 published in 2004 and IEC 60092-359 Ed. 1 published in 1987, Amendment 1:1994 and Amendment 2:1992. This edition constitutes a technical revision.

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

- a) rationalization of the number of insulating and sheathing materials. In particular polyvinyl chloride based insulation (PVC) and sheath (ST 1) have been removed. PVC sheath ST 2 is permitted even though it releases harmful fumes under fire conditions. SE and SH also release harmful fumes under fire conditions;

- b) updated temperature limit for thermoplastic sheath in line with the operating temperature on the conductor;
- c) new optional categories of sheathing materials with enhanced oil resistance, and resistance to drilling fluids;
- d) removal of the air bomb test for EPR and HEPR insulating types;
- e) there has been some redistribution of test methods between IEC 60092-350 and this new standard to remove all tests carried out on complete cables.

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

FDIS	Report on voting
18A/360/FDIS	18A/361/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.

A list of all parts of 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 publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
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