

# INTERNATIONAL STANDARD

**IEC**  
**60092-351**

Third edition  
2004-04

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## **Electrical installations in ships –**

### **Part 351: Insulating materials for shipboard and offshore units, power, control, instrumentation, telecommunication and data cables**



Reference number  
IEC 60092-351:2004(E)

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International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland  
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: [inmail@iec.ch](mailto:inmail@iec.ch) Web: [www.iec.ch](http://www.iec.ch)



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## ELECTRICAL INSTALLATIONS IN SHIPS –

**Part 351: Insulating materials for shipboard and offshore units, power, control, instrumentation, telecommunication and data cables**

## FOREWORD

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International Standard IEC 60092-351 has been prepared by subcommittee 18A: Cables and cable installations, of IEC technical committee 18: Electrical installations of ships and of mobile and fixed offshore units.

This third edition cancels and replaces the second edition published in 2000, and constitutes a technical revision. The title has been updated and changes introduced to the tables.

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

FDIS	Report on voting
18A/252/FDIS	18A/254/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.

IEC 60092 consists of the following parts under the general title *Electrical installations in ships*:

- Part 101: Definitions and general requirements
- Part 201: System design – General
- Part 202: System design – Protection
- Part 203: System design – Acoustic and optical signals
- Part 204: System design – Electric and electrohydraulic steering gear
- Part 301: Equipment – Generators and motors
- Part 302: Low-voltage switchgear and controlgear assemblies
- Part 303: Equipment – Transformers for power and lighting
- Part 304: Equipment – Semiconductor convertors
- Part 305: Equipment – Accumulator (storage) batteries
- Part 306: Equipment – Luminaires and accessories
- Part 307: Equipment – Heating and cooking appliances
- Part 350: Shipboard power cables – General construction and test requirements
- Part 351: Insulating materials for shipboard and offshore units, power, control, instrumentation, telecommunication and data cables
- Part 352: Choice and installation of cables for low-voltage power systems
- Part 353: Single and multicore non-radial field power cables with extruded solid insulation for rated voltages 1 kV and 3 kV
- Part 354: Single- and three-core power cables with extruded solid insulation for rated voltages 6 kV ( $U_m = 7,2$  kV) up to 30 kV ( $U_m = 36$  kV)
- Part 359: Sheathing materials for shipboard power and telecommunication cables
- Part 373: Shipboard telecommunication cables and radio-frequency cables – Shipboard flexible coaxial cables
- Part 374: Shipboard telecommunication cables and radio-frequency cables – Telephone cables for non-essential communication services
- Part 375: Shipboard telecommunication cables and radio-frequency cables – General instrumentation, control and communication cables
- Part 376: Cables for control and instrumentation circuits 150/250 V (300 V)
- Part 390: Cable penetrations – Fire type test procedures
- Part 401: Installation and test of completed installation
- Part 501: Special features – Electric propulsion plant
- Part 502: Tankers – Special features
- Part 503: Special features – A.C. supply systems with voltages in the range above 1 kV up to and including 11 kV
- Part 504: Special features – Control and instrumentation
- Part 506: Special features – Ships carrying specific dangerous goods and materials hazardous only in bulk
- Part 507: Pleasure craft
- Part 508: Switchgear and controlgear assemblies for rated voltages above 1kV and up to and including 15kV (in preparation)

The committee has decided that the contents of this publication will remain unchanged until 2008. At this date, the publication will be

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

A bilingual version may be issued at a later date.