

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Low-voltage electrical installations –
Part 7-702: Requirements for special installations or locations – Swimming
pools and fountains**

**Installations électriques à basse tension –
Partie 7-702: Exigences pour les installations ou emplacements spéciaux –
Piscines et fontaines**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

**Part 7-702: Requirements for special installations or locations –
Swimming pools and fountains**

FOREWORD

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International Standard IEC 60364-7-702 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock.

This third edition cancels and replaces the second edition published in 1997 and constitutes a technical revision.

The main changes with respect to the previous edition are as follows:

- the scope has been improved, including natural areas in natural waters;
- the description of zones has been improved;
- all figures have been updated.

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

| | |
|--------------|------------------|
| FDIS | Report on voting |
| 64/1724/FDIS | 64/1728/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 reader's attention is drawn to the fact that Annex B lists all of the "in-some-country" clauses on differing practices of a less permanent nature relating to the subject of this standard.

A list of all parts in the IEC 60364 series, under the general title *Low-voltage electrical installations*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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

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- withdrawn,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

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INTRODUCTION

The requirements of this part of IEC 60364 supplement, modify or replace certain of the general requirements contained in Parts 1 to 6 of IEC 60364.

The clause numbering appearing after 702 refers to the corresponding parts or clauses of IEC 60364, Parts 1 to 6¹⁾. Numbering of clauses does not, therefore, necessarily follow sequentially. Numbering of additional text is shown by the addition of “.101, etc”. Numbering of figures and tables takes the number of this part followed by a sequential number. For annexes, the numbering of figures and tables takes the letter of the annex, the number of the part and a sequential number.

The absence of reference to a part or clause means that the general requirements contained in Parts 1 to 6 of IEC 60364 are applicable.

¹⁾ For historical reasons, IEC 60364-1:2005 numbering is as follows: 11 Scope; 12 Normative references; 20 Terms and definitions, etc.

LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

Part 7-702: Requirements for special installations or locations – Swimming pools and fountains

702 Swimming pools and fountains

702.1 Scope

The particular requirements of this part of IEC 60364 apply to electrical installations of:

- basins of swimming pools and paddling pools and their surrounding zones;
- areas in natural waters, lakes in gravel pits and coastal and similar areas, specially intended to be occupied by persons for swimming, paddling and similar purposes, and their surrounding zones. Such areas in natural waters, lakes in gravel pits and coastal and similar areas, are considered as swimming pools;
- basins of fountains and their surrounding zones.

NOTE In these areas, in normal use, the effect of an electric shock is increased by a reduction in body resistance and contact of the body with earth potential.

For swimming pools for medical use, special requirements may apply.

This standard does not cover the use of mobile equipment, e.g. pool cleaning equipment.

702.2 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 60245 (all parts), *Rubber insulated cables – Rated voltages up to and including 450/750 V*

IEC 60335-2-41, *Household and similar electrical appliances – Safety – Part 2-41: Particular requirements for pumps*

IEC 60364-4-41:2005, *Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 60598-2-18, *Luminaires – Part 2: Particular requirements – Section 18: Luminaires for swimming pools and similar applications*

IEC 61386-1, *Conduit systems for cable management – Part 1: General requirements*

702.3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.