

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Low-voltage electrical installations –  
Part 7-715: Requirements for special installations or locations – Extra-low-  
voltage lighting installations**

**Installations électriques à basse tension –  
Partie 7-715: Règles pour les installations et emplacements spéciaux –  
Installations d'éclairage à très basse tension**



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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland  
Email: [inmail@iec.ch](mailto:inmail@iec.ch)  
Web: [www.iec.ch](http://www.iec.ch)

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Email: [csc@iec.ch](mailto:csc@iec.ch)

Tél.: +41 22 919 02 11

Fax: +41 22 919 03 00



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# CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
715 Extra-low-voltage lighting installations .....	6
715.1 Scope.....	6
715.2 Normative references .....	6
715.4 Protection for safety .....	7
715.41 Protection against electric shock .....	7
715.414 Protective measure: extra-low-voltage provided by SELV and PELV.....	7
715.42 Protection against thermal effects.....	7
715.422.3 Locations with risks of fire due to the nature of processed or stored materials .....	7
715.422.106 Fire risk of transformers/convertors .....	7
715.422.107 Fire risk due to short-circuit.....	8
715.43 Protection against overcurrent .....	8
715.430.104 Protection against overcurrent in ELV lighting installations .....	8
715.5 Selection and erection of electrical equipment .....	8
715.52 Wiring systems .....	8
715.521 Types of wiring system .....	8
715.521.106 Bare conductors .....	9
715.521.107 Suspended systems .....	9
715.523 Current-carrying capacities.....	9
715.524 Cross-sectional areas of conductors .....	9
715.525 Voltage drop in consumers' installations .....	10
715.53 Isolation, switching and control.....	10
715.530.3 General and common requirements .....	10
715.536 Isolation and switching .....	10
Annex A (informative) List of notes concerning certain countries.....	11
Bibliography.....	12

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**LOW-VOLTAGE ELECTRICAL INSTALLATIONS –****Part 7-715: Requirements for special installations or locations –  
Extra-low-voltage lighting installations**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60364-7-715 has been prepared by committee 64: Electrical installations and protection against electric shock.

This second edition cancels and replaces the first edition, published in 1999, and constitutes a technical revision.

The major technical changes with respect to the previous edition are listed below:

- clause numbering is aligned with present structure of IEC 60364;
- introduction of references to LED modules and their particular installation requirements;
- modification of requirements for cross-sectional area of conductors.

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

FDIS	Report on voting
64/1807/FDIS	64/1815/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 in the IEC 60364 series, under the general title *Low-voltage electrical installations*, 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 website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

## 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 715 refers to the corresponding parts or clauses of IEC 60364, Parts 1 to 6. Numbering of clauses does not, therefore, necessarily follow sequentially. Numbering of figures and tables takes the number of this part followed by 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.

## LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

### Part 7-715: Requirements for special installations or locations – Extra-low-voltage lighting installations

#### 715 Extra-low-voltage lighting installations

##### 715.1 Scope

The particular requirements of this part of IEC 60364 apply to the selection and erection of extra-low-voltage lighting installations supplied from sources with a maximum rated voltage of 50 V a.c. or 120 V d.c.

NOTE 1 For the definition of an extra-low-voltage lighting system see IEC 60598-2-23.

NOTE 2 AC voltages are given as r.m.s. values.

##### 715.2 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 60364-4-41:2005, *Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock*

IEC 60364-4-42:2010, *Low-voltage electrical installation – Part 4-42: Protection for safety – Protection against thermal effects*

IEC 60364-4-43:2008, *Low-voltage electrical installation – Part 4-43: Protection for safety – Protection against overcurrent*

IEC 60364-5-52:2009, *Low-voltage electrical installations – Part 5-52: Selection and erection of electrical equipment – Wiring systems*

IEC 60364-5-53:2001, *Electrical installations of buildings – Part 5-53: Selection and erection of electrical equipment – Isolation, switching and control*

IEC 60364-5-55:2001, *Electrical installations of buildings – Part 5-55: Selection and erection of electrical equipment – Other equipment*

IEC 60570:2003, *Electrical supply track systems for luminaires*

IEC 60598-2-23:1996, *Luminaires – Part 2: Particular requirements – Section 23: Extra-low-voltage lighting systems for filament lamps*

IEC 60998-2-1:2002, *Connecting devices for low-voltage circuits for household and similar purposes – Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units*

IEC 60998-2-2:2002, *Connecting devices for low-voltage circuits for household and similar purposes – Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units*