IEC 60364-7-706

Edition 3.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Low- voltage electrical installations –
Part 7-706: Requirements for special installations or locations – Conducting locations with restricted movement

Installations électriques à basse tension –
Partie 7-706: Exigences pour les installations ou emplacements spéciaux – Enceintes conductrices exiguës



IEC 60364-7-706:2024-03(en-fr)



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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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ELECTROTECHNIQUE
INTERNATIONALE

ICS 91.140.50, 29.020

ISBN 978-2-8322-8127-7

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

Part 7-706: Requirements for special installations or locations – Conducting locations with restricted movement

FOREWORD

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IEC 60364-7-706 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock. It is an International Standard.

This third edition cancels and replaces the second edition published in 2005 and Amendment 1:2019. This edition constitutes a technical revision.

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

a) The structure of clauses 706.41X has been updated following the structure of IEC 60364-4-41:2005 and IEC 60364-4-41:2005/AMD1:2017.

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

Draft	Report on voting
64/2535/CDV	64/2631/RVC

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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

The reader's attention is drawn to the fact that Annex A lists all of the "in-some-country" clauses on differing practices of a less permanent nature relating to the subject of this document.

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

- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION

For the purposes of this part of IEC 60364 (IEC 60364-7-706) the requirements of the general Parts 1 to 6 and Part 8 of IEC 60364 apply.

The IEC 60364-7-7XX parts of IEC 60364 contain particular requirements for special installations or locations which are based on the requirements of the general parts of IEC 60364 (IEC 60364-1 to IEC 60364-6 and IEC 60364-8). These IEC 60364-7-7XX parts are considered in conjunction with the requirements of the general parts.

The particular requirements of this part of IEC 60364 supplement, modify or replace certain of the requirements of the general parts of IEC 60364 being valid at the time of publication of this part. The absence of reference to the exclusion of a part or a clause of a general part means that the corresponding clauses of the general part are applicable (undated references).

Requirements of other 7XX parts being relevant for installations covered by this part also apply. This part can therefore also supplement, modify or replace certain of these requirements valid at the time of publication of this part.

The clause numbering of this part follows the pattern and corresponding references of IEC 60364. The numbers following the particular number of this part are those of the corresponding parts, or clauses of the other parts of the IEC 60364 series, valid at the time of publication of this part, as indicated in the normative references of this document (dated references).

If requirements or explanations additional to those of the other parts of the IEC 60364 series are necessary, the numbering of such items appears as 706.101, 706.102, 706.103, etc.

In the case where new or amended general parts with modified numbering were published after this part was issued, it is possible that the clause numbers referring to a general part in this part will no longer align with the latest edition of the general part. Dated references should be observed.

LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

Part 7-706: Requirements for special installations or locations – Conducting locations with restricted movement

706 Requirements for special installations or locations – Conducting locations with restricted movement

706.1 Scope

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

- fixed equipment within conducting locations with restricted movement; and
- supplies to equipment used within conducting locations with restricted movement.

706.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60364-4-41:2005/AMD1:2017

706.3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

706.3.1
conducting location with restricted movement
location surrounded by mainly extraneous-conductive-parts and where contact through one or more points on a person's body with the extraneous-conductive-parts is likely and where there is limited possibility of interrupting this contact

706.4 Protection for safety

706.41 Protection against electric shock

706.410.3 General requirements

706.410.3.3

Add the following requirement after the second paragraph:

However, for the supply to mobile equipment, one of the following protective measures shall be applied:

- electrical separation for the supply of one item of current using equipment in accordance with IEC 60364-4-41:2005, Clause 413, or
- SELV in accordance with IEC 60364-4-41:2005, Clause 414.

NOTE An isolating transformer can have several secondary windings.

706.410.3.5

Replace the requirement with the following:

The protective measures of obstacles and placing out of reach in accordance with IEC 60364-4-41:2005, Annex B shall not be used.

706.411 Protective measure: automatic disconnection of supply

706.411.3 Requirements for fault protection

706.411.3.1 Protective earthing and protective equipotential bonding

Add the following subclause:

706.411.3.1.101

Supplementary protective equipotential bonding in accordance with IEC 60364-4-41:2005, 415.2 and IEC 60364-4-41:2005/AMD1:2017, 415.2 shall be provided. Where functional earthing is provided, the supplementary protective equipotential bonding shall include any terminals for functional earthing.

706.412 Protective measure: double or reinforced insulation

Add the following subclause:

706.412.101 In AC systems, additional protection by the use of a residual current device (RCD) with a rated residual operating current not exceeding 30 mA shall be provided.

706.413 Protective measure: electrical separation

706.413.3 Requirements for fault protection

706.413.3.2

Add the following requirement:

The source shall be situated outside the conducting location with restricted movement, unless the source is part of the fixed installation within the location.

706.414 Protective measure: extra-low-voltage provided by SELV and PELV

706.414.3 Sources for SELV and PELV

706.414.3.101 Sources for SELV and PELV shall be situated outside the conducting location with restricted movement, unless they are part of the fixed installation within the conducting location with restricted movement.

706.414.4 Requirements for SELV and PELV circuits

706.414.4.4

Add the following requirement:

For PELV circuits, equipotential bonding between all exposed-conductive-parts and extraneous-conductive-parts and the connection of the PELV system to earth shall be provided.