

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

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

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





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FOREWORD

This amendment has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock.

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

FDIS	Report on voting
64/2380/FDIS	64/2394/RVD

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

The committee has decided that the contents of this amendment and the base 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- withdrawn,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
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FOREWORD

Add the following new text:

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 permanent or less permanent nature relating to the subject of this standard.

INTRODUCTION

Replace the existing text with the following new text:

For the purpose of this part of IEC 60364 (IEC 60364-7-706) the requirements of the general Parts 1 to 6 and Parts 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 reference).

Requirements of other 7XX parts being relevant for installations covered by this part also apply. This part may 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 reference).

If requirements or explanations additional to those of the other parts of the IEC 60364 series are needed, 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, the clause numbers referring to a general part in this Part 706 may no longer align with the latest edition of the general part. Dated references should be observed.

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706.1 Scope

Replace the existing text with the following new text: <https://standards.iteh.ai/catalog/standards/sist/1ffb5a7-fb82-4db8-9561-c259941f720/iec-60364-7-706-2005-amd1-2019>

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.

Add, after the Scope, the following new Subclauses 706.2 and 706.3:

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 terminological 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

706.410.3 Application of measures of protection against electric shock

Replace the existing title of 706.410.3 and add the following headers of 706.4 and 706.41 as follows:

706.4 Protection for safety

706.41 Protection against electric shock

706.410.3 General requirements

Add, at the end of existing Subclause 706.410.3.1.6, the following new text:

706.410.3.3

Replace the existing text with the following.

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

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

NOTE An isolating transformer can have several secondary windings.

For the supply to fixed equipment, one of the following protective measures shall be applied:

- automatic disconnection of the supply in accordance with IEC 60364-4-41:2005 and IEC 60364-4-41:2005/AMD1:2017, Clause 411 together with additional protection by supplementary equipotential bonding in accordance with IEC 60364-4-41:2005 and IEC 60364-4-41:2005/AMD1:2017, 415.2, or
- SELV in accordance with IEC 60364-4-41:2005, Clause 414, or
- PELV in accordance with IEC 60364-4-41:2005, Clause 414, together with equipotential bonding between all exposed-conductive-parts and extraneous-conductive-parts and the connection of the PELV system to earth, or
- electrical separation for the supply of one item of current using equipment in accordance with IEC 60364-4-41:2005, Clause 413, or
- double or reinforced insulation in accordance with IEC 60364-4-41:2005 and IEC 60364-4-41:2005/AMD1:2017, Clause 412 together with additional protection by the use of a residual current device (RCD) with a rated residual operating current not exceeding 30 mA.

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.

706.413 Protection against indirect contact

Replace the existing title of 706.413 with the following new title:

706.413 Protective measure: electrical separation

706.413.1.2.3 Equipotential bonding and functional earth

Add, at the end of existing Subclause 706.413.1.2.3, the following new text:

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.

Add, at the end of existing Subclause 706.413.5.1.1, the new Subclauses 706.414, 706.415 and Annex A as follows:

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

706.414.3 Sources for SELV and PELV

The following requirements are added:

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

706.414.4.5

Replace the first paragraph and first two dashed items with the following:

If the nominal voltage exceeds 25 V AC or 60 V DC, or if the equipment is immersed, basic protection shall be provided for SELV and PELV circuits by:

- insulation in accordance with IEC 60634-4-41:2005, Clause A.1, or
- barriers or enclosures in accordance with IEC 60634-4-41:2005, Clause A.2.

706.415 Additional protection

706.415.2 Additional protection: supplementary protective equipotential bonding

706.415.2.1

The following requirement is added:

Where functional earthing is required, supplementary equipotential bonding shall be provided between all exposed-conductive-parts, extraneous-conductive-parts and the terminals for functional earthing.

Annex A
(informative)

List of notes concerning certain countries

Country	Clause N°	Nature (permanent or less permanent according to IEC Directives)	Rationale (detailed justification for the requested country note)	Wording
DE	706.1			In DE, PELV is not allowed in conducting locations with restricted movement
GB	706.1			In the United Kingdom, this part does not apply to electrical systems as defined in BS 7909 used in structures, sets, mobile units, etc., as used for public or private events, touring shows, theatrical, radio, TV or film productions and similar activities of the entertainment industry.
DE	706.3.1			In DE, PELV is not allowed in conducting locations with restricted movement.
BE	706.410.3.3			In Belgium, PELV is not allowed in conducting locations with restricted movement.
FR	706.410.3.3			In France, PELV is not allowed in conducting locations with restricted movement.
CH	706.410.3.3			In Switzerland, the use of hand-held tools, luminaires and portable equipment for tank cleaning services are permitted under conditions other than mentioned above. These conditions are defined in a law. (Weisung des Eidgenössischen Starkstrominspektorates STI 608.0702 d).
DE	706.410.3.3			In DE, PELV is not allowed in conducting locations with restricted movement.
IT	706.410.3.3			In Italy, PELV is not admitted.
BE	706.414			In Belgium, PELV is not allowed in conducting locations with restricted movement.
DE	706.414			In Germany, PELV is not allowed in conducting locations with restricted movement.
FR	706.414			In France, PELV is not allowed in conducting locations with restricted movement.
AT	706.522.6	Permanent	Regulations for electrical low voltage installations, statutory order BGBl. II/223/2010, issued 12. July 2010	In Austria, flexible cord extension shall be designed as heavy duty cables with cross-linked elastomeric insulation. Furthermore, hand tools and portable electrical equipment with equivalent cord set shall be used. Hand lamps with flexible cord set with an ordinary duty cables with cross-linked elastomeric insulation or equivalent shall be used.

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