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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 16895.34-2018

**Low-voltage electrical installations -- Part 7-753: Requirements
for special installations or locations -- Heating cables and
embedded heating systems**

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Foreword

GB/T 16895 "Low-voltage electrical apparatus" series of national standards are divided into five parts, each part is divided into multiple sub-parts.

--- Part 1. Basic principles, general characteristic evaluation and definition;

--- Part 4. Security;

--- Part 5. Selection and installation of electrical equipment;

--- Part 6. Inspection;

--- Part 7. Requirements for special electrical installations or locations.

This part of the GB/T 16895 part 7. Part 753 of the requirements of special equipment or places.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the translation method equivalent to the use of IEC 60364-7-753.2014 "Low-voltage electrical apparatus Part 7-753. Special devices or fields

The requirements of the heating cable and embedded heating system."

The Chinese documents that have a consistent correspondence with the normatively quoted international documents in this section are as follows.

--- GB 3836.3-2010 Explosive atmospheres Part 3. Equipment protected by increased safety "e" (IEC 60079-7.2006, IDT);

---GB 4706.82-2014 Safety of Household and Similar Electrical Appliances Particular Requirements for Film Heating Elements for Room Heating (IEC 60335-2-96.2009, IDT);

--- GB/T 16895 (all parts) Low-voltage electrical devices [IEC 60364 (all parts), IDT];

--- GB/T 16895.2-2005 Electrical installations of buildings - Part 4-42. Protection against thermal effects of safety protection (IEC 60364-4-42:2001, IDT);

---GB/T 20841-2007 Heating cable for heating and anti-icing of rated voltage 300/500V (IEC 60800:1992, IDT).

Compared with IEC 60364-7-753:2014, this section has exactly the same number of chapters and the same technical content, but has made the following editorial modify.

--- Appendix B of the IEC standard is related to other countries has nothing to do with our country, removed in this section.

This part is proposed and managed by the National Building Electrical Installation Standardization Technical Committee (SAC/TC205).

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Introduction

The general requirements of GB/T 16895 part 1 to part 6 apply to this part.

Since Parts 1 to 6 are general requirements, GB/T 16895 Parts 7-7x contain special features for special installations or locations.

Claim. GB/T 16895 part 7-7 x x must consider the requirements of combining the general part.

The special requirements of GB/T 16895 in this part is to supplement, modify or replace the GB/T 16895 general still in force at the time of publication of this part.

Some of the requirements in the section. A unique reference to a general section or section that is not listed in this section means that the corresponding general requirements still apply.

(not dated).

The requirements related to the devices covered in this section in the other parts of

Sections 7-7xxx still apply. This section may also be supplemented, modified or replaced

Some of the requirements for this section are still valid at the time of publication.

The numbering of this section follows the model of GB/T 16895 and makes a corresponding reference. Followed by the private number in section 753

Is the number of the corresponding part number or clause of GB/T 16895 at the time of publication of this part, indicating that these documents are regulated (referenced by date).

If additional requirements or explanations are required for other parts of the GB/T 16895 series, 753.101, 753.102, 753.103, etc. may be used

Document number.

Note. In the case of this part of the issuance, in the case of a new or modified general part of the revised number, the general part of the term number referred to in this section may no longer be

The latest version of the general section is the same. Should comply with the date cited.

Low-voltage electrical device

Part 7-753. Requirements for Special Installations or Sites

Heating cable and embedded heating system

753.1 Scope

The part of GB/T 16895 is applicable to the embedded electric heating system for the heating of indoor and outdoor surfaces. It is also applicable to the deicing, frost protection, etc.

Electric heating system for use.

This part does not include industrial, commercial heating systems that comply with IEC 60519, IEC 62395, and IEC 60079.

Note. The heating system applicable to this standard includes walls, ceilings, floors, roofs, drains, drains, pipes, stairs, roads, and non-hard ground (eg.

Heating system for football pitches and lawns.

753.2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 16895.21-2011 Low-voltage electrical apparatus Part 4-41. Protection against electric shock (IEC 60364-4-41.

2005, IDT)

IEC 60079-7 Explosive atmospheres Part 3. Equipment protected by increased safety "e" (Explosive atmospheres-Part 7.

Equipment protection by increased safety "e")

IEC 60335-2-96 Safety of household and similar electrical appliances - Part 2-96. Particular requirements for film heating elements for room heating

Flexible sheet heating elements for room heating)

IEC 60364 (all parts) Low-voltage electrical installations

IEC 60364-4-42 Low-voltage electrical apparatus - Part 4-42. Protection against thermal effects (Low-voltage electrical in-

stallations-Part 4-42. Protection for safety-Protection against thermal effects)

IEC 60800 Heating cable with rated voltage 300/500V heating and anti-icing heating cables (Heating cables with a rated

Voltage of 300/500V for comfort heating and prevention of ice formation)

753.3 Terms and Definitions

The following terms and definitions apply to this document.

753.3.1

Regenerative floor heating system thermal storage floor heating system

Due to the limitation of heat storage time, which limits the timely conversion of electrical energy into usable heat energy, heat is mainly scattered through the floor surface after a certain delay.

A heating system sent to a heated room.

753.3.2

Direct heating system direct heating system

The heat generated by the electrical energy is dissipated to the heating system in the heated room in as short a time as possible.