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

GB/T 42324-2023

Cable glands for electrical installations

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foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents"

drafting:

This document is modified to adopt IEC 62444:2010 "Cable glands for electrical installations":

The technical differences between this document and IEC 62444:2010 and their reasons are as follows:

--- Added "This document specifies the requirements for the marking, structure, mechanical properties, electrical properties and tests of cable glands" to comply with

The provisions of GB/T 1:1 (see Chapter 1);

--- Replaced IEC 60529:1989 with the normative referenced GB/T 4208-2017, in line with the actual references in this document

conditions, in order to adapt to my country's technical conditions and increase operability (see 12:1:2, 12:1:3);

--- Replaced IEC 60695-2-11:2000 with the normative referenced GB/T 5169:11, in line with the actual references in this document

conditions, in order to adapt to my country's technical conditions and increase operability (see 13:1:1);

--- Replaced ISO 9227:2006 with the normatively quoted GB/T 10125, which conforms to the actual reference situation in this document, to suit

Adapt to the technical conditions of our country and increase operability (see 12:2);

--- Added GB /Z 40825-2021 for normative references, and modified 7:2 Marking test requirements, in accordance with GB /Z 40825-

The requirements of 10:3 in 2021 shall be tested to adapt to my country's technical conditions and increase operability (see Chapter 2, 7:2):

The following editorial changes have been made to this document:

--- According to the relevant provisions of GB/T 1:1-2020, add a reference to Appendix A in Chapter 4 (see Chapter 4):

---According to the relevant provisions of GB/T 1:1-2020, modify the level number in 6:3, and modify the terms quoted in 6:3 in the text accordingly

(see 6:3, 9:4, 10:1, 10:2, 10:3:1):

Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies the marking, structure, mechanical performance, electrical performance and test requirements of cable glands:

This document applies to complete cable glands supplied by the manufacturer or the distributor responsible for placing the product on the market:

This document does not apply to cable glands for mineral insulated cables:

This document applies to cable glands whose inlet threads are connection threads according to IEC 60423:

This document may also be used as a guide for cable glands with inlet threads of other types:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is

applicable to

this document:

GB/T 2411-2008 Determination of indentation hardness (Shore hardness) of plastics and hard rubber using a durometer (ISO 868:2003, IDT)

GB/T 3505-2009 Product Geometric Specifications (GPS) Surface Structure Profiling Terms, Definitions and Surface Structure Parameters
(ISO 4287:1997, IDT)

GB/T 4208-2017 Enclosure protection level (IP code) (IEC 60529:2013, IDT)

GB/T 5169.11 Fire hazard tests for electrical and electronic products - Part 11: Basic test methods for glow wire/hot wire Ignition of finished products

Hot wire flammability test method (GWEPT) (GB/T 5169.11-2017, IEC 60695-2-11:2014, IDT)

GB/T 10125 Artificial atmosphere corrosion test Salt spray test (GB/T 10125-2021, ISO 9227:2017, MOD)

GB /Z 40825-2021 General Coordination of Electrical Accessories (IEC TR61916:2017, MOD)

IEC 60423:2007 External diameter of conduits for electrical installations and threads of conduits and fittings for conduit systems for cable management (Conduit

Note: GB/T 17194-1997 Electrical Conduit - Outer Diameter of Conduit for Electrical Installation and Thread of Conduit and Fittings (IEC 423:1993, eqv)

3 Terms and Definitions

The following terms and definitions apply to this document:

3:1

cable gland cablegland

A device designed to allow cables, flexible cables or insulated conductors to enter an enclosure and provide sealing and retention: The device also provides other

Functions such as grounding, bonding, insulation, cable protection, strain relief or a combination of the above functions:

3:2

entry thread entrythread

The threaded part of a cable gland intended to be attached to an enclosure or equipment: