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

GB/T 2099.7-2015

Replacing GB/T 2099.7-2015

**Cord extension socket-outlets for household and similar
purposes - Safety technical specification
(English Translation)**

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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 Part 7 of Plugs and Sockets for Household and Similar Purposes. Plugs and Sockets for Household and Similar Purposes has been published as follows part.

- Plugs and sockets for household and similar purposes Part 1: General requirements (GB/T 2099.1);
- Plugs and sockets for household and similar purposes Part 2: Particular requirements for appliance sockets (GB/T 2099.2).
- Plugs and sockets for household and similar purposes Part 2-5. Particular requirements for converters (GB/T 2099.3);
- Plugs and sockets for household and similar purposes Part 2: Particular requirements for fixed non-interlocking switched sockets (GB/T 2099.4);
- Plugs and sockets for household and similar purposes Part 2: Particular requirements for

fixed interlocking switches and sockets (GB/T 2099.5);

--- Plugs and sockets for household and similar purposes Part 2: Particular requirements for plugs with fuses (GB/T 2099.6);

--- Safety technical specification for extension cord sockets for household and similar purposes (GB 2099.7);

--- Plugs and sockets for household and similar purposes Part 2-4. Particular requirements for safety extra low voltage (SELV) plugs and sockets (GB/T 2099.8);

--- Plugs and sockets for household and similar purposes Part 2-9. Particular requirements for information sockets (GB/T 2099.9).

This document replaces GB/T 2099.7-2015 "Plugs and sockets for household and similar purposes - Part 2-7. Special requirements for extension cord sockets" Compared with GB/T 2099.7-2015, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

--- Changed the terms and definitions (see Chapter 3, Chapter 3 of the 2015 edition);

--- Changed the classification of extension cord sockets (see 4.1, Chapter 7 of the 2015 edition);

--- Added main technical parameters (see 4.2);

--- Changed the requirements for protection against electric shock and the corresponding test methods for the sockets of extension cords (see 5.1.6.2, 6.2.5.2, 2015 edition 14.1);

--- Added protection function requirements for ordinary extension cord sockets (see 5.1.6.4);

--- Added the shell shape requirements for extension cord sockets (see 5.1.6.5.1);

--- Added the protection level requirements, corresponding inspection methods and marking requirements for ordinary extension cord sockets used outdoors (see 5.1.7.3, 6.2.6.3, 7.1.1);

--- Added bending test requirements for mobile sockets (see 5.1.13);

--- Added copper content requirements for current-carrying parts of extension cord sockets and corresponding inspection methods (see 5.1.16.2, 6.2.15.2);

--- Added requirements for extension cord sockets used for charging electric bicycles and corresponding test methods (see 5.2, 6.3);

--- Added requirements for extension cord sockets that draw power from the electric vehicle discharge system and corresponding test methods (see 5.3, 6.4);

--- Added requirements for extension cord sockets installed on furniture or desktops and

corresponding test methods (see 5.4, 6.5);

--- Added the requirements for extension cord sockets with coupler input and the corresponding test methods (see 5.5, 6.6);

--- Added requirements for extension cord sockets with cord reels and corresponding test methods (see 5.6, 6.7);

--- Added general provisions for extension cord socket test (see 6.1);

--- Changed the cable length measurement method for extension cord sockets (see 6.2.5.3, 14.2 of the 2015 edition);

--- Added test conditions for insulation resistance and electrical strength (see 6.2.7);

--- Added the requirements for the temperature rise test method for mobile sockets with wires shipped from the factory (see 6.2.8.1);

--- Added requirements for the breaking capacity test method of extension cord sockets with assembled components (see 6.2.9);

--- Changed the marking requirements (see 7.1, Chapter 8 of the 2015 edition);

--- Added the requirements for instructions (see 7.3);

--- Added inspection rules (see Chapter 8);

--- Increased the implementation of the standard (see Chapter 9).

Introduction

"Plugs and Sockets for Household and Similar Purposes" aims to standardize the technical requirements of plugs and sockets for household and similar purposes, and ensure that users can use them in daily electricity supply.

Safety when using electricity. This series of standards needs to be consistent with GB 1002 "Types, basic parameters and dimensions of single-phase plugs and sockets for household and similar purposes" Use in conjunction with.

"Plugs and Sockets for Household and Similar Purposes" is proposed to consist of the following parts.

--- Plugs and sockets for household and similar purposes Part 1: General requirements. The purpose is to specify plugs and sockets for household and similar purposes Technical requirements for protection against electric shock, grounding measures, structure, mechanical strength, electrical performance, etc.

--- Plugs and sockets for household and similar purposes Part 2: Particular requirements for appliance sockets. The purpose is to standardize the protection of appliance sockets against contact.

Technical requirements for electrical protection, grounding measures, structure, mechanical strength, electrical performance, etc.

--- Plugs and sockets for household and similar purposes Part 2-5. Particular requirements for converters. The purpose is to standardize the protection against electric shock of converters Technical requirements for protection, grounding measures, structure, mechanical strength, electrical performance, etc.

--- Plugs and sockets for household and similar purposes Part 2: Particular requirements for fixed non-interlocking switched sockets. The purpose is to standardize Technical requirements for anti-electric shock protection, grounding measures, structure, mechanical strength, electrical performance, etc. of fixed non-interlocking switched sockets.

--- Plugs and sockets for household and similar purposes Part 2: Particular requirements for fixed interlocking switches and sockets. The purpose is to standardize Technical requirements for anti-electric shock protection, grounding measures, structure, mechanical strength, electrical performance, etc. of fixed interlocking switches and sockets.

--- Plugs and sockets for household and similar purposes Part 2: Particular requirements for plugs with fuses. The purpose is to standardize plugs with fuses.

Technical requirements for the head's anti-electric shock protection, grounding measures, structure, mechanical strength, electrical performance, etc.

--- Safety technical specification for extension cord sockets for household and similar purposes. The purpose is to standardize the protection against electric shock and grounding of extension cord sockets Technical requirements such as measures, structure, mechanical strength, electrical performance, etc.

--- Plugs and sockets for household and similar purposes Part 2-4. Particular requirements for safety extra low voltage (SELV) plugs and sockets.

To standardize the protection against electric shock, grounding measures, structure, mechanical strength, electrical performance, etc. of safety extra low voltage (SELV) plugs and sockets Technical requirements.

--- Plugs and sockets for household and similar purposes Part 2-9. Special requirements for information sockets. The purpose is to standardize the protection of information sockets.

Technical requirements for electric shock protection, grounding measures, structure, mechanical strength, electrical performance, etc.

This document can provide guidance for the design, production and testing of plugs and sockets for household and similar purposes, and improve the technical performance and safety of the products.

Full reliability, ensuring the safety of people's electricity use.