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

GB/T 2099.10-2026

**Plugs and socket-outlets for household and similar purposes -
Part 10: Particular requirements for plugs and socket-outlets
applicable to the Hong Kong Special Administrative Region**

家用和类似用途插头插座 第10部分：适用于香港特别行政区的插头插座特殊要求

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Table of Contents

- 1 Scope
- 4 Classification and main technical parameters
 - 4.2 Main technical parameters and rated values
 - 4.2.5 Technical parameters of protection devices
- 5 Technical Requirements
 - 5.6 Structure
 - 5.6.3 Additional requirements for extension cord sockets

1 Scope

GB/T 2099.10-2026 is the Chinese national standard covering the British-pattern 13 A plug and socket used in Hong Kong - the fused plug, the shuttered socket and the dimensions that differ from the mainland pattern, brought into the national standard series as a part of its own. First edition of this part, 19,000 words, in force since 1 October 2026. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the China Electrical Equipment Industry Association. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the classification, main technical parameters, technical requirements, and electrical protection requirements for plugs and sockets applicable to the Hong Kong Special Administrative Region. Inspection rules, marking, packaging, transportation and storage, and corresponding test methods are described. This document applies to electrical plugs used in the Hong Kong Special Administrative Region for household and similar purposes, with electrical protection functions, and intended for long-term use. Socket (hereinafter referred to as "portable electrical accessories"). Note

1.The electrical protection functions in this document include, but are not limited to.

---Overcurrent protection;

---Ground fault (residual current) protection;

---Arc fault protection. Note

2.Examples of portable electrical accessories in this document. converter (see Figure 1), extension cord socket. This document includes requirements for portable electrical accessories with additional functions, but does not include requirements for the additional

functions themselves. Note

3.Examples of additional functions. Wi-Fi, USB charging, electronic power supply, dimmer, timer, protection device, infrared switch, etc.

4 Classification and main technical parameters

4.1 Classification Portable electrical accessories are classified according to their electrical protection type as follows:

- Equipped with overcurrent protection;
- With ground fault (residual current) protection;
- Equipped with arc fault protection;
- It has all three of the above protections.

4.2 Main technical parameters and rated values

4.2.1 Rated Voltage The preferred rated voltage for portable electrical accessories without electronic components is 250V. The preferred rated voltage for portable electrical accessories with electronic components is 230V, 240V, or 250V. The rated voltage of the plug and socket of the extension cord should be the same, and the rated voltage of the flexible cable should not be less than the rated voltage of the plug and socket.

4.2.2 Rated Current The rated current of portable electrical accessories shall not exceed 13A.

4.2.3 Maximum operating current of electrical accessories The maximum operating current of portable electrical accessories should be a short-term withstand current that will not damage the accessories. The following options can be selected. The lowest value among the current values is taken as the maximum operating current of the electrical accessory.

- The rated current of the plug;
- The rated current of the protection device with the minimum rated current;
- The rated current corresponding to the nominal cross-sectional area of the flexible cable; the correspondence between the nominal cross-sectional area of the flexible cable and its rated current can be found in BS1363- Table 2 in GB/T 2023 can also be found in Table 3 in GB/T 2099.1-2021.

4.2.4 Rated Power/Maximum Permissible Power The rated power/maximum permissible power of portable electrical accessories is calculated by multiplying the product's rated current/maximum operating current by the rated voltage and power. Calculate using a factor of 1.

4.2.5 Technical parameters of protection devices

4.2.5.1 The rated voltage of arc fault protection devices, overcurrent protection devices, and ground fault (residual current) protection devices shall not be lower than the corresponding voltage. The rated voltage and rated current of the portable electrical accessories shall be less than or equal to the rated current of the corresponding portable electrical accessories.

4.2.5.2 For arc fault protection, when a fault arc occurs in the load circuit, the arc fault protection function should, within the specified time or permissible time, [respond to the incident]. Cut off the power supply within the maximum half-wave number.

4.2.5.3 For overcurrent protection, the tripping characteristics of the overcurrent protection device should ensure sufficient protection against overcurrent without premature operation. The specified non-tripping current of a protective device should be

1.13 times its rated current; the specified tripping current of a protective device should be

4.2.5.4 For ground fault (residual current) protection, the protection device should be able to detect the residual current and compare the residual current value with the residual operating current value. In comparison, the circuit should be cut off when the residual current exceeds this value. The rated residual operating current of the protection device should not exceed 10mA, preferably. The rated residual non-operating current is 6mA or 10mA; the rated residual non-operating current should be

0.5 times the rated residual operating current.

5 Technical Requirements

5.1 Basic Requirements Portable electrical accessories should be designed and constructed to ensure reliable performance under normal use, and conform to GB/T 20002.4. The regulations stipulate that risks should be reduced to an acceptable level to ensure safety. Components of portable electrical accessories (such as plugs, flexible cables, fuses, electrical protection devices, etc.) should fully comply with the relevant standards for these components. It is accurate and has been verified through testing. The plugs installed on portable electrical accessories shall comply with the requirements of BS1363-1. In addition to meeting the requirements of BS1363-2, extension cord sockets shall also meet the requirements of this document. For adapters whose plug and socket dimensions conform to BS1363 type dimensions, in addition to meeting the requirements of BS1363-3, they should also meet the requirements of this document. Requirements for the item. For converters with plug dimensions conforming to BS1363-1 and socket dimensions conforming to GB 1002 type dimensions, except those conforming to GB/T 2099.3- In addition to the requirements of Appendix AA of 2022, the requirements of this document shall also be met. The portable electrical accessories described in this document should simultaneously have overcurrent protection, ground fault (residual current) protection, and

arc fault protection. Gas protection function. The grounding pin of the plug installed on portable electrical accessories should be made of metal. If the converter's socket section only has single-phase two-phase... If there is no grounding socket, the grounding pin of the plug portion of the converter can be made of insulating material. Manufacturers should not supply detachable removable sockets to end users.

5.2 Dimensions The adapter's plug size should conform to the relevant requirements of BS1363-1, and the socket size should conform to the relevant requirements of BS1363-3 and/or GB 1002. As requested. The plug size of the extension cord socket should conform to the requirements of BS1363-1, and the socket size should conform to the requirements of BS1363-2. The inspection shall be carried out in accordance with the method specified in 7.2.

5.3 Protection against electric shock Portable electrical accessories should be designed such that, when installed and wired according to normal usage requirements, their structure prevents live parts from being easily touched. And. For converters whose plugs and sockets conform to the BS1363 type dimensions, their electric shock protection should comply with section [section number missing] of BS1363-3.2023. Requirements for Chapter 10. For converters with plug dimensions conforming to BS1363-1 and socket dimensions conforming to GB 1002 type dimensions, their electric shock protection should meet the following requirements. Requirements of Chapter 10 of GB/T 2099.3-2022. For extension cord sockets, the protection against electric shock shall comply with the requirements of Chapter 10 of BS1363-2.2023. The test shall be performed in accordance with the test specified in 7.3.

5.4 Grounding Measures For converters whose plugs and sockets conform to the BS1363 type dimensions, their grounding measures shall comply with section 11 of BS1363-3.2023. The requirements of the chapter. For converters with plug dimensions conforming to BS1363-1 and socket dimensions conforming to GB 1002 type dimensions, their grounding measures shall comply with... Requirements of Chapter 11 of GB/T 2099.3-2022. For extension cord sockets, the grounding measures of the sockets shall comply with the requirements of Chapter 11 of BS1363-2.2023. The test shall be performed in accordance with the test specified in 7.4.

5.5 Terminals and Endcaps For adapters whose plugs and sockets conform to the BS1363 standard dimensions, their terminals and fittings shall conform to section [section number missing] of BS1363-3.2023. Requirements for Chapter 12. For converters with plug dimensions conforming to BS1363-1 and socket dimensions conforming to GB 1002 type dimensions, their terminals and fittings shall conform to... Requirements of Chapter 12 in GB/T 2099.3-2022. For extension cord sockets, the terminals and fittings of the sockets shall comply with the requirements of Chapter 12 of BS1363-2.2023. The test shall be performed in accordance with the test specified in 7.5.