

**SS 241:2024**  
**BS 5733:2010+A1:2014, MOD**  
(ICS 29.120.01)

**SINGAPORE STANDARD**

**Specification for general requirements  
for electrical accessories**

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### **Specification for general requirements for electrical accessories**

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## National Foreword

This Singapore Standard was prepared by the Working Group on Plugs, Socket-outlets and Switches set up by the Technical Committee on Electrical and Electronic Products under the purview of the Electrical and Electronic Standards Committee.

This standard is a revision of SS 241:1996(2008), "Specification for general requirements for electrical accessories". The revised standard is a modified adoption of BS 5733-2010+A1-2014, "General requirements for electrical accessories – Specification" and is implemented with the permission of the British Standards Limited.

The following deviations have been made due to national requirements and the particular needs of the local industry:

1. Changed the ambient temperature under conditions for use for electrical accessories from -5°C to +40°C, the average value over 24 h not exceeding +35°C to having a peak value not exceeding +40°C, the average value over 24 h not exceeding +35°C.
2. Changed the ambient temperature of 20°C ± 5°C used for test condition for 13A fused connection unit to 27°C ± 5°C.
3. Replaced "British Standard" with "Singapore Standard" where applicable.
4. Replaced normative references with Singapore or IEC standards where applicable.

The technical deviations and editorial changes have been added directly to the clauses to which they refer. The technical deviations are marked by a vertical bar on the left margin of the standard.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

### NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as "mature standards". Mature standards will not be subject to further review, unless there are requests to review such standards.*
2. *An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.*
3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

## Specification for general requirements for electrical accessories

### 1 Scope

**1.1** This Singapore Standard specifies requirements and tests to check the safety in normal use of electrical accessories which are not covered by other specific Singapore Standards.

Such accessories are intended for use in household, commercial and light industrial premises where:

- the nominal supply voltage does not exceed 250 V a.c. single-phase, 50 Hz to 60 Hz or 250 V d.c.;
- the rated current of the accessory does not exceed 63 A.

Unless otherwise stated by the manufacturer, accessories conforming to this standard are intended for connection by cables or flexible cords conforming to SS 358 or IEC 60227 series.

**1.2** This standard also covers:

- “plug-in” and other accessories in which electrical accessory components such as plug-pins, socket-contacts, switches, terminals, etc. are incorporated (see 5.1);
- maintenance free accessories (see 3.31).

**1.3** Accessories conforming to this standard are suitable for use under the following conditions of service:

- an ambient temperature in the range -5 °C to +40 °C, the average value over 24 h not exceeding 35 °C;

*NOTE 1 Under normal conditions of use, the available cooling air is subject to natural atmospheric variations of temperature and hence the peak temperature occurs only occasionally during the hot season, and on those days when it does occur, it does not persist for lengthy periods.*

- a situation not subject to direct radiation from the sun or other source of heat likely to raise temperatures above the limits specified above;
- an altitude not exceeding 2 000 m above sea-level;
- an atmosphere not subject to excessive pollution by smoke, chemical fumes, or other abnormal conditions.

*NOTE 2 Accessories conforming to this standard may be suitable for use in other conditions, subject to agreement between manufacturer and user. Information given in a manufacturer's catalogue may take the place of such an agreement.*

**1.4** Requirements for electromagnetic compatibility are not given, as accessories do not in themselves produce extraneous emissions, nor is their functioning affected by external emissions. Therefore no emission or immunity tests are necessary.

It should be noted that accessories containing active electronic components, other than luminous indicating devices, may be susceptible to, or emit, electromagnetic interference.