



BSI Standards Publication

13 A plugs, socket outlets, adaptors and connection units

Part 2: Specification for 13 A switched and unswitched socket outlets

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Contents

	Page
Foreword	iii
1 Scope	1
2 Conditions of use	1
3 Terms and definitions	2
4 General	5
5 General conditions for type testing	5
<i>Table 1 — Schedule of tests</i>	6
6 Classification and rating	7
7 Marking and labelling	8
<i>Table 2 — Rated current and maximum fuse rating in normal use, and load for flexing and flexible cable grip tests related to size of flexible cable</i>	9
8 Clearances, creepage distances and solid insulation	10
<i>Table 3 — Minimum clearances for basic insulation</i>	11
<i>Table 4 — Minimum creepage distances (mm) for basic insulation</i>	13
<i>Table 5 — Withstand voltages for insulation types</i>	13
9 Accessibility of live parts	14
10 Provisions for earthing	15
<i>Table 6 — Torque values for screws and nuts</i>	15
11 Terminals and terminations	16
12 <i>(Not used)</i>	20
13 Construction of socket-outlets	20
<i>Table 7 — Actuator test force</i>	23
14 Resistance to ageing, resistance to humidity and protection provided by enclosures	26
<i>Table 8 — Tightening torque values for cable glands</i>	28
15 Insulation resistance and electric strength	30
16 Temperature rise	31
<i>Table 9 — Permitted temperature rises</i>	31
<i>Table 10 — Loading of socket-outlets for temperature-rise test</i>	32
17 Breaking capacity of socket-outlets	33
18 Normal operation of socket-outlets	34
19 Connection of flexible cables and cable anchorage	35
<i>Table 11 — Connection of flexible cables</i>	37
20 Mechanical strength	37
21 Screws, current carrying parts and connections	39
22 Resistance to heat	40
23 Resistance to abnormal heat and fire	41
<i>Table 12 — Application of glow-wire test</i>	42
24 Resistance to excessive residual stresses and to rusting	43
25 <i>(Not used)</i>	43
26 Cycle loading test	43
<i>Figure 1 — Test pin (see Clause 12)</i>	44
<i>Figure 2a — Apparatus for mechanical strength test on resilient covers (see Clause 9)</i>	45
<i>Figure 2b — Hardwood block for Figure 2a</i>	46
<i>Figure 3 — Disposition of socket contacts (see Clause 13)</i>	47
<i>Figure 11 — GO gauge for socket-outlet (see Clause 13)</i>	48
<i>Figure 12 — Contact test gauge (see Clause 13)</i>	49
<i>Figure 13 — Test apparatus and circuit for use with contact and non contact gauges (see Clause 13)</i>	50

	<i>Figure 14 — Non contact test gauge (see Clause 13)</i>	51
	<i>Figure 15 — Turning moment gauge (see Clause 13)</i>	52
	<i>Figure 16a — Withdrawal pull gauges for effectiveness of contact: Gauge for earthing socket contact (see Clause 13)</i>	53
	<i>Figure 16b — Withdrawal pull gauges for effectiveness of contact: Gauge for line and neutral current-carrying socket contacts (see Clause 13)</i>	54
	<i>Figure 18 — Apparatus for flexing test (see Clause 19)</i>	55
	<i>Figure 19 — Solid link for test on fuse clips (see Clause 20)</i>	56
	<i>Figure 20 — Tumbling barrel (see Clause 20)</i>	57
	<i>Figure 21a — Pendulum impact test: General view of apparatus (see Clause 20)</i>	57
	<i>Figure 21b — Pendulum impact test: Constructional details of striking elements (see Clause 20)</i>	58
	<i>Figure 21c — Pendulum impact test: Constructional details of mounting support for test samples (see Clause 20)</i>	59
	<i>Figure 22 — Arrangements for mechanical strength test for portable socket outlet (see Clause 20)</i>	60
	<i>Figure 23 — Apparatus for pressure test (see Clause 22)</i>	61
	<i>Figure 28 — Calibrated link (see A.1)</i>	62
	<i>Figure 29 — Calibration jig for calibrated link (see A.2)</i>	64
	<i>Figure 30 — Test plug for temperature rise (see Annex G)</i>	66
Annex A	(normative) The construction and calibration of a calibrated link	68
Annex B	(normative) Measurement of clearances and creepage distances	69
	<i>Table B.1 — Minimum values of width X</i>	69
Annex C	(normative) Determination of the Comparative Tracking Index (CTI) and Proof Tracking Index (PTI)	73
Annex D	(normative) Relation between rated impulse withstand voltage, rated voltage and Overvoltage Category	74
	<i>Table D.1 — Rated impulse withstand voltage for plugs energized directly from the low-voltage mains</i>	74
Annex E	(normative) Pollution degree	74
Annex F	(normative) Impulse voltage test	75
	<i>Table F.1 — Test voltages for verifying clearances at sea level</i>	76
Annex G	(normative) Test plug for temperature-rise test	76
Annex H	(informative) Specific structure of BS EN 50525 and its derivation from British Standards and from HD 21 and HD 22 (BS EN 50525-1:2011, National Annex NA)	77
	<i>Table H.1 — Specific structure of BS EN 50525 and its derivation from British Standards and from HD 21 and HD 22 (BS EN 50525-1:2011, National Annex NA)</i>	77
Annex I	(informative) Requirements for incorporated electronic components	78
	Bibliography	82

Summary of pages

This document comprises a front cover, and inside front cover, pages i to iv, pages 1 to 84, an inside back cover and a back cover.

Foreword

Publishing information

This part of BS 1363 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 August 2016. It was prepared by Technical Committee PEL/23, *Electrical accessories*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

BS 1363-2:2016+A1:2018 supersedes BS 1363-2:2016, which is withdrawn.

BS 1363-2:2016 superseded BS 1363-2:1995+A4:2012, which remains current and will be withdrawn on 31 August 2019.

Information about this document

BS 1363 comprises five parts covering the following:

- Part 1: Specification for rewirable and non-rewirable 13 A fused plugs;
- Part 2: Specification for 13 A switched and unswitched socket-outlets;
- Part 3: Specification for adaptors;
- Part 4: Specification for 13 A fused connection units switched and unswitched;
- Part 5: Specification for fused conversion plugs.

NOTE In order to prevent confusion with BS 1363:1984 the figure and clause numbers have been retained.

The structure of BS EN 50525 and its derivation from British Standards and HD 21 and HD 22 is set out in BS EN 50525-1:2011, National Annex NA. This is reproduced in [Annex H](#) for the convenience of users of this part of BS 1363.

BS 1363-2 was a new edition and incorporated technical changes only. It did not represent a full review or revision of the standard, which will be undertaken in due course. The new edition of BS 1363-2 incorporated [Annex I](#) (normative) which provides requirements for incorporated electronic components.

Text introduced or altered by Amendment No. 1 is indicated in the text by tags A1 A1. Minor editorial changes are not tagged.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Requirements in this standard are drafted in accordance with *Rules for the structure and drafting of UK standards*, subclause **G.1.1**, which states, "Requirements should be expressed using wording such as: 'When tested as described in [Annex A](#), the product shall ...'". This means that only those products that are capable of passing the specified test will be deemed to conform to this standard.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Particular attention is drawn to the following specific regulations:

- The Plugs and Sockets etc. (Safety) Regulations 1994. SI No. 1768. [1]

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1 Scope

This part of BS 1363 specifies requirements for 13 A switched and unswitched shuttered socket-outlets for household, commercial and light industrial purposes, with particular reference to safety in normal use. The socket-outlets are suitable for the connection of appliances, sound-vision equipment, luminaires, etc. in a.c. circuits only, operating at voltages not exceeding 250 V r.m.s. at 50 Hz using plugs in accordance with BS 1363-1:2016. Additional requirements are included for socket-outlets suitable for electric vehicle charging.

Requirements are specified for 13 A shuttered socket-outlets in single or multiple arrangements, with or without associated controlling switches, for flush mounting in suitable boxes, e.g. conforming to BS 4662:2006+A1:2009, or for surface or panel mounting or for portable use. Fixed socket-outlets are intended for use with cables conforming to BS 6004:2012 and cables to the relevant part of BS EN 50525 (see [Annex H](#)), having copper conductors. Portable socket-outlets are intended for use with flexible cables conforming to the relevant part of BS EN 50525. Socket-outlets incorporating fuse links, switches and indicator lamps are included within the scope of this part of BS 1363. Socket-outlets incorporating electronic components as detailed in [Annex I](#) are included within the scope of this part of BS 1363.

Socket-outlets conforming to this standard are shuttered and therefore do not require the use of additional means to shield the current-carrying contacts when no plug is present in the socket-outlet.

NOTE 1 The titles of the publications referred to in this part of BS 1363 are listed in the bibliography.

NOTE 2 In order to maintain safety and interchangeability with plugs and socket-outlets it is necessary that these products conform to the requirements of [Clause 9](#) and [Clause 13](#) of this part of BS 1363, however their body outline need not be limited at a distance of 6.35 mm from the plug engagement surface.

NOTE 3 Requirements for electromagnetic compatibility for socket-outlets that incorporate electronic devices are given in [Annex I](#).

A socket-outlet that does not incorporate electronic devices does not emit intolerable electromagnetic interference since significant electromagnetic disturbance is only generated during insertion and withdrawal which are not continuous.

A socket-outlet that does not incorporate electronic devices is mechanical by nature of construction. The product is therefore immune from electromagnetic interference.

2 Conditions of use

Socket-outlets shall be suitable for use under the following conditions:

- a) an ambient temperature in the range $-5\text{ }^{\circ}\text{C}$ to $+40\text{ }^{\circ}\text{C}$, the average value over 24 h not exceeding $25\text{ }^{\circ}\text{C}$;

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.

- b) a situation not subject to exposure to direct radiation from the sun or other source of heat likely to raise temperatures above the limits specified in a);
- c) an altitude not exceeding 2 000 m above sea level;
- d) an atmosphere not subject to abnormal pollution by smoke, chemical fumes or other abnormal conditions. This is equivalent to pollution degree 2, (see [Annex E](#)) and Overvoltage Category III (see [Annex D](#)).