

BS 1363-3:2016+A1:2018



BSI Standards Publication

13 A plugs, socket-outlets, adaptors and connection units

Part 3: Specification for adaptors

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Contents

	Page
Foreword	iv
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	7
<i>Table 2 — Rated current and maximum fuse rating in normal use, and load for flexing and 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 Provision for earthing	15
11 Terminals and terminations of intermediate adaptors and adaptor plugs	16
<i>Table 6 — Torque values for screws and nuts</i>	17
12 Construction of adaptors (plug portion)	18
13 Construction of adaptors (adaptor socket-outlet portion)	26
<i>Table 7 — Actuator test force</i>	30
14 Resistance to ageing and to humidity	30
15 Insulation resistance and electric strength	31
16 Temperature rise	32
<i>Table 8 — Permitted temperature rises</i>	34
17 Breaking capacity of adaptors	35
18 Normal operation of adaptors	35
19 Connection of flexible cables and cable anchorage in intermediate adaptors and adaptor plugs	36
<i>Table 9 — Connection of flexible cables</i>	38
20 Mechanical strength	39
21 Screws, current-carrying parts and connections	40
22 Resistance to heat	41
23 Resistance to abnormal heat and fire	42
<i>Table 10 — Application of glow-wire test</i>	42
24 Resistance to excessive residual stresses and to rusting	43
25 <i>(Not used)</i>	44
26 Overload tests	44
<i>Figure 1 — Test pin (see Clause 12)</i>	45
<i>Figure 2a — Apparatus for mechanical strength test on resilient covers (see Clause 9)</i>	46
<i>Figure 2b — Hardwood block for Figure 2a</i>	47
<i>Figure 3 — Disposition of socket contacts (see Clause 13)</i>	48
<i>Figure 4a — Dimensions and disposition of pins (see Clause 12)</i>	49
<i>Figure 4b — Concave shrinkage allowance for ISODs</i>	51
<i>Figure 5 — Gauge for plug pins (see Clause 12, Clause 20 and Clause 22)</i>	52
<i>Figure 6 — Apparatus for testing plug cover fixing screws (see Clause 12)</i>	53
<i>Figure 7 — Mounting plate (see Clause 12)</i>	54
<i>Figure 8 — Plug pin deflection test apparatus for resilient adaptors (see Clause 12)</i>	55

	<i>Figure 9 — Apparatus for abrasion test on insulating sleeves of plug pins (see Clause 12)</i>	57
	<i>Figure 10 — Apparatus for pressure test at high temperature (see Clause 12)</i>	58
	<i>Figure 11 — GO gauge for socket outlet (see Clause 13)</i>	59
	<i>Figure 12 — Contact test gauge (see Clause 13)</i>	60
	<i>Figure 13 — Test apparatus and circuit for use with contact and non contact gauges (see Clause 13)</i>	61
	<i>Figure 14 — Non-contact test gauge (see Clause 13)</i>	62
	<i>Figure 16a — Withdrawal pull gauges for effectiveness of contact: Gauge for earthing socket contact (see Clause 13)</i>	63
	<i>Figure 16b — Withdrawal pull gauges for effectiveness of contact: Gauge for line and neutral current carrying socket contacts (see Clause 13)</i>	64
	<i>Figure 17a — Test apparatus for temperature rise test (see Clause 16)</i>	65
	<i>Figure 17b — Dummy front plate for temperature rise test (see Clause 16)</i>	66
	<i>Figure 18 — Apparatus for flexing test (see Clause 19)</i>	67
	<i>Figure 19 — Solid link for test on fuse clips (see Clause 20)</i>	68
	<i>Figure 20 — Tumbling barrel (see Clause 20)</i>	68
	<i>Figure 21a — Pendulum impact test: General view of apparatus (see Clause 20)</i>	69
	<i>Figure 21b — Pendulum impact test: Constructional details of striking elements (see Clause 20)</i>	70
	<i>Figure 21c — Pendulum impact test: Constructional details of mounting support for test samples (see Clause 20)</i>	71
	<i>Figure 23 — Apparatus for pressure test (see Clause 22)</i>	72
	<i>Figure 28 — Calibrated link (see A.1)</i>	73
	<i>Figure 29 — Calibration jig for calibrated link (see A.2)</i>	75
	<i>Figure 30 — Test plug for temperature rise (see Annex G)</i>	77
	<i>Figure 32a — Apparatus for tests on adaptor pins: An adaptor pin under test (see Clause 12)</i>	78
	<i>Figure 32b — Apparatus for tests on adaptor plug pins: Details of anvils (see Clause 12)</i>	79
	<i>Figure 33 — Apparatus for torsion test on pins (see Clause 12)</i>	79
	<i>Figure 34 — Test plug (see Clause 16)</i>	80
	<i>Figure 35 — Simulated plug and cable devices (see Clause 13)</i>	80
	<i>Figure 36 — Apparatus for calibration of turning moment of simulated plug (see Clause 13)</i>	82
	<i>Figure 37a — Turning moment apparatus: Front view and side view (see Clause 13)</i>	82
	<i>Figure 37b — Turning moment apparatus: Top view and pictorial overview (see Clause 13)</i>	83
	<i>Figure 38 — Solid links for test on fuse clips (see Clause 20)</i>	83
Annex A	(normative) The construction and calibration of a calibrated link	84
Annex B	(normative) Measurement of clearances and creepage distances	85
	<i>Table B.1 — Minimum values of width X</i>	85
Annex C	(normative) Determination of the Comparative Tracking Index (CTI) and Proof Tracking Index (PTI)	89
Annex D	(normative) Relation between rated impulse withstand voltage, rated voltage and Overvoltage Category	89
	<i>Table D.1 — Rated impulse withstand voltage for adaptors energized directly from the low voltage mains</i>	89
Annex E	(normative) Pollution degree	90
Annex F	(normative) Impulse voltage test	91
	<i>Table F.1 — Test voltages for verifying clearances at sea level</i>	91
Annex G	(normative) Test plug for temperature rise test	92
Annex H	(normative) Requirements for incorporated electronic components	93

Annex I	(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)	97
	<i>Table I.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>	97
	Bibliography	99

Summary of pages

This document comprises a front cover, and inside front cover, pages i to vi, pages 1 to 101, 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 1363-3:2016+A1:2018 supersedes BS 1363-3:2016, which is withdrawn.

BS 1363-3:2016 superseded BS 1363-3:1995+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 I](#) for the convenience of users of this part of BS 1363.

BS 1363-3 was a new edition, which incorporated technical changes only. It did not represent a full review or revision of the standard, which will be undertaken in due course.

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]

1 Scope

This part of BS 1363 specifies requirements for adaptors having insulating sleeves on the line and neutral plug pins and suitable for use with socket-outlets conforming to BS 1363-2:2016, with particular reference to safety in normal use. Adaptors specified in this part of BS 1363 are intended for household, commercial and light industrial purposes. The adaptors are suitable for the connection of portable appliances, sound-vision equipment, luminaires, etc., in a.c. circuits only, operating at voltages not exceeding 250 V r.m.s. at 50 Hz. Adapters incorporating electronic components detailed in [Annex H](#) are included within this part of BS 1363.

This standard also applies to shaver adaptors which have the earth pin replaced with a similarly dimensioned protrusion made of insulating material designated as an insulated shutter opening device (ISOD) designed to operate the shutter mechanism of a socket-outlet conforming to BS 1363-2:2016.

Adaptors 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 adapter socket-outlets.

Assemblies comprising a plug and one or more portable socket-outlets connected together by a flexible cable are not considered to be adaptors according to this part of BS 1363. Devices incorporating, transformers, timers, thermostats or other control means are outside the scope of this part of BS 1363.

NOTE 1 The titles of the publications referred to in this standard 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](#), [Clause 12](#) and [Clause 13](#), however their body outline need not be limited at a distance of 6.35 mm from the plug engagement surface.

An adaptor is mechanical by nature of construction. The product is therefore immune from electromagnetic interference.

An adaptor that does not incorporate electronic devices does not emit intolerable electromagnetic interference since significant electromagnetic disturbances are only generated during insertion and withdrawal which are not continuous.

This British Standard does not cover travel adapters.

NOTE 3 Attention is drawn to BS 8546:2016, which covers travel adapters.

2 Conditions of use

Adaptors shall be suitable for use under the following conditions:

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

NOTE 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, rain spray prolonged periods of high humidity or other abnormal conditions. This is the equivalent to pollution degree 2, see [Annex E](#), and Overvoltage Category III, see [Annex D](#).