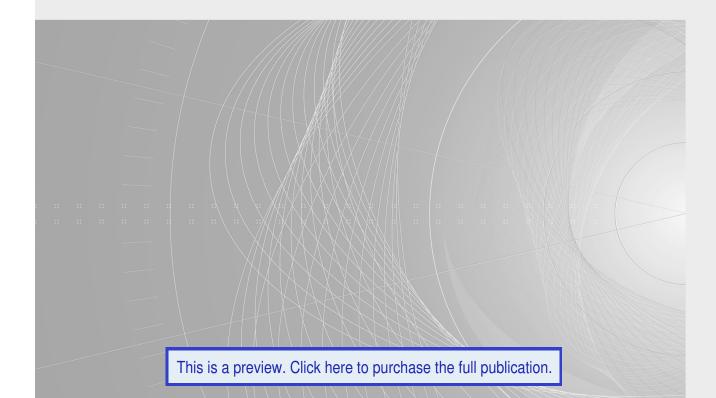


Edition 1.0 2017-09

INTERNATIONAL STANDARD

Plugs, socket-outlets and couplers with arcuate contacts





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Plugs, socket-outlets and couplers with arcuate contacts

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CONTENTS

FURE	WORD	υ
INTRO	ODUCTION	8
1 8	Scope	9
2 N	Normative references	9
3 T	Ferms and definitions	10
4 0	General	16
4.1		
4.2	·	
	Standard ratings	
	Classification	
6.1	According to purpose	18
6.2		
7 N	Marking	
8 E	Dimensions	20
9 F	Protection against electric shock	21
	Provisions for earthing	
	Ferminals and terminations	
11.		
11.		
11.	• •	
12 F	Resistance to ageing of rubber and thermoplastic material	
	Seneral construction	
14 C	Construction of socket-outlets	29
	Construction of plugs and connectors	
	Construction of appliance inlets	
	Degrees of protection	
	nsulation resistance and dielectric strength	
	Breaking capacity	
	Normal operation	
	Femperature rise	
	Flexible cables and their connection	
22.		
22.	1 9	
_	22.2.1 Non-rewirable plugs and connectors	
22		
	Mechanical strength	
23	•	
23		
23		
23		
23	·	
23	• •	
23		

23.8 Ac	cessories with screwed glands	46
23.9 Plu	ıgs	46
23.9.1	General	
23.9.2	Perpendicular stress test	
23.9.3	Axial stress test	
23.9.4	Tensile strength test	
23.9.5 24 Screws,	Blade retention (compression) test	
	e distances, clearances and distances through sealing compound	
	nce to heat	
	nce to fire and to tracking	
	on and resistance to rusting	
	nal short-circuit current withstand test	
	ort-circuit current	
	tings and test conditionsst circuit	
	libration	
	st procedure	
	haviour of the equipment under test	
	ceptance conditions	
30 Electron	nagnetic compatibility	59
30.1 lm	munity	59
30.2 En	nission	59
STANDARD	SHEETS	60
STANDARD	SHEET L5-20 125 V, 20 A, two-pole three-wire	62
STANDARD	SHEET L5-30 125 V, 30 A, two-pole three-wire	63
STANDARD	SHEET L25-30 240 V, 30 A, two-pole three-wire	64
STANDARD	SHEET L6-20 250 V, 20 A, two-pole three-wire	65
STANDARD	SHEET L6-30 250 V, 30 A, two-pole three-wire	66
STANDARD	SHEET L7-20 277 V, 20 A, two-pole three-wire	67
STANDARD	SHEET L7-30 277 V, 30 A, two-pole three-wire	68
STANDARD	SHEET L24-20 347 V, 20 A, two-pole three-wire	69
STANDARD	SHEET L8-20 480 V, 20 A, two-pole three-wire	70
	SHEET L8-30 480 V, 30 A, two-pole three-wire	
	SHEET L9-20 600 V, 20 A, two-pole three-wire	
	SHEET L9-30 600 V, 30 A, two-pole three-wire	
	SHEET L14-20 125/250 V, 20 A, three-pole four-wire	
	SHEET L14-30 125/250 V, 30 A, three-pole four-wire	
	SHEET L15-20 250 V, 20 A, three-pole four-wire	
	SHEET L15-30 250 V, 30 A, three-pole four-wire	
	SHEET L16-20 480 V, 20 A, three-pole four-wire	
	SHEET L16-30 480 V, 30 A, three-pole four-wire	
	SHEET L17-30 600 V, 30 A, three-pole four-wire	
	SHEET L21-20 120/208 V, 20 A, four-pole five-wire	
STANDARD	SHEET L 21-30 120/208 V 30 A four-pole five-wire	82

STANDARD SHEET L26-30 240/415 V, 30 A, four-pole five-wire	83
STANDARD SHEET L22-20 277/480 V, 20 A, four-pole five-wire	84
STANDARD SHEET L22-30 277/480 V, 30 A, four-pole five-wire	85
STANDARD SHEET L23-20 347/600 V, 20 A, four-pole five-wire	86
STANDARD SHEET L23-30 347/600 V, 30 A, four-pole five-wire	87
Bibliography	88
Figure 1 – Diagram showing the uses of the accessories	11
Figure 2 – Pillar terminals	14
Figure 3 – Screw terminals	14
Figure 4 – Stud terminals	14
Figure 5 – Saddle terminals	15
Figure 6 – Mantle terminals	15
Figure 7 – Gauges for testing insertability of round unprepared conductors having the maximum specified cross-section	25
Figure 8 – Flexing test arrangement	27
Figure 9 – Circuit diagrams for breaking capacity and normal operation tests	35
Figure 10 – Apparatus for testing the cable anchorage	40
Figure 11 – Impact test apparatus – Pendulum assembly	43
Figure 12 – Arrangement for mechanical strength test for plugs and connectors	45
Figure 13 – Apparatus for flexing test	46
Figure 14 – Arrangement for contact blade strength tests for plugs	
Figure 15 – Ball-pressure apparatus	52
Figure 16 – Arrangement and dimensions of the electrodes for the tracking test	54
Figure 17 – Diagram of the test circuit for the verification of short-circuit current withstand of a two-pole equipment on a single-phase AC	56
Figure 18 – Diagram of the test circuit for the verification of short-circuit current withstand of a three-pole equipment	57
Figure 19 – Diagram of the test circuit for the verification of short-circuit current withstand of a four-pole equipment	58
Table 1 – Standard ratings	
Table 2 – Voltage colour code	
Table 3 – Size for connectable conductors	
Table 4 – Flexing under mechanical load testing for copper conductors	
Table 5 – Pulling force	
Table 6 – Voltage for dielectric strength test	
Table 7 – Breaking capacity	
Table 8 – Normal operation	
Table 9 – Test current and nominal cross-sectional area	
Table 10 – Cable type	
Table 11 – Metric cables	
Table 12 – AWG cables	
Table 13 – Pulling force and torque test values	41

Table 14 – Impact force	45
Table 15 – Test force for glands	46
Table 16 – Torque values for terminal screws	49
Table 17 – Distances through sealing compound	51
Table 18 – Standard sheets	60

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PLUGS, SOCKET-OUTLETS AND COUPLERS WITH ARCUATE CONTACTS

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International Standard IEC 62986 has been prepared by subcommittee 23H: Plugs, socketoutlets and couplers for industrial and similar applications, and for electric vehicles, of IEC technical committee 23: Electrical accessories.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
23H/386/FDIS	23H/387/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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In this standard, the following print types are used:

- requirements: in roman type;
- conformity statements: in italic type;
- notes: in small roman type.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- · reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

The object of this document is to provide for a safe, compact and practical IEC system of standardized plugs and socket-outlets with arcuate contacts. It contains performance and dimensional requirements taking into account essential differences in the infrastructures and installation rules throughout the world.

PLUGS, SOCKET-OUTLETS AND COUPLERS WITH ARCUATE CONTACTS

1 Scope

This document sets the general and dimensional interchangeability requirements for plugs, socket-outlets, connectors and appliance inlets with arcuate contacts of standardized configurations (hereinafter referred to as accessories), with a rated operating voltage not exceeding 600 V AC at a frequency of 50 Hz and 60 Hz and with rated currents of 20 A and 30 A, primarily intended for commercial use indoors, in conditions where the presence of water is negligible.

This document applies to accessories for use when the ambient temperature is normally within the range of -25 °C to +40 °C. These accessories are intended to be connected to cables of copper or copper alloy only.

Interchangeability requirements are defined for IP20 accessories.

NOTE The conditions of use indoors are based on the limitations given by IEC 60364-5-51:2005, Table 51A, AD1.

Socket-outlets or appliance inlets incorporated in or fixed to electrical equipment are within the scope of this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60227 (all parts), Polyvinyl chloride insulated cables of rated voltages up to and including $450/750\ V$

IEC 60228:2004, Conductors of insulated cables

IEC 60245-4, Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 4: Cords and flexible cables

IEC 60269-1, Low-voltage fuses – Part 1: General requirements

IEC 60269-2, Low-voltage fuses — Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) — Examples of standardized systems of fuses A to K

IEC 60309-1:1999, Plugs, socket-outlets and couplers for industrial purposes – Part 1:

General requirements

IEC 60309-1:1999/AMD1:2005 IEC 60309-1:1999/AMD2:2012

IEC 60417, *Graphical symbols for use on equipment* (available at http://www.graphical-symbols.info/equipment)

IEC 60529, Degrees of protection provided by enclosures (IP Code)

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