

SLOVENSKI
STANDARD

**SIST EN 61058-2-
1:1999/A1:1999**

prva izdaja
julij 1999

Switches for appliances -- Part 2-1: Particular requirements for cord switches -
Amendment A1 (IEC 61058-2-1:1992/A1:1995)

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ICS 29.120.40

Referenčna številka
SIST EN 61058-2-1:1999/A1:1999(en)

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UDC 621.316.542
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English version

Switches for appliances
Part 2-1: Particular requirements for cord switches
(IEC 1058-2-1:1992/A1:1995)

Interrupteurs pour appareils
Partie 2-1: Règles particulières pour
les interrupteurs pour câbles souples
(CEI 1058-2-1:1992/A1:1995)

Geräteschalter
Teil 2-1: Besondere Bestimmungen
für Schnurschalter
(IEC 1058-2-1:1992/A1:1995)

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This amendment A1 modifies the European Standard EN 61058-2-1:1993; it was approved by CENELEC on 1995-11-28. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 23J/144/FDIS, future amendment 1 to IEC 1058-2-1:1992, prepared by SC 23J, Switches for appliances, of IEC TC 23, Electrical accessories, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 61058-2-1:1993 on 1995-11-28.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1996-09-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1996-09-01

For products which have complied with EN 61058-2-1:1993 before 1996-09-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2001-09-01.

Endorsement notice

The text of amendment 1:1995 to the International Standard IEC 1058-2-1:1993 was approved by CENELEC as an amendment to the European Standard without any modification.

[SIST EN 61058-2-1:1999/A1:1999
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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
1058-2-1

1992

AMENDEMENT 1
AMENDMENT 1

1995-10

Amendement 1

Interrupteurs pour appareils

Partie 2-1:

Règles particulières pour les interrupteurs
pour câbles souples

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Amendment 1

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Switches for appliances

Part 2-1:

Particular requirements for cord switches

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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FOREWORD

This amendment has been prepared by sub-committee 23J: Switches for appliances, of IEC technical committee 23: Electrical accessories.

The text of this amendment is based on the following documents:

FDIS	Report on voting
23J/144/FDIS	23J/147/RVD

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

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1 Scope

Replace subclause 1.2 by the following:

1.2 This standard applies to switches intended to be connected to a flexible cable.

NOTES

- <https://standards.iteh.ai/catalog/standards/sist/d218b7d9-c4b3-45a3-87e5-05c94b5cb702/sist-en-61058-2-1-1999-a1-1999>
- 1 For switches used in tropical climates, additional requirements may be necessary.
 - 2 Attention is drawn to the fact that the standards for appliances and equipment may contain additional or alternative requirements for switches.
 - 3 Throughout this standard the word "appliance" means "appliance or equipment".
 - 4 Part 2-1 is applicable when testing cord switches. When other types of cord switches, e.g. electronic cord switches, are tested, this Part 2-1 is applicable together with the relevant Part 2.
 - 5 Throughout this standard the word "switch" means "cord switch" unless otherwise stated.
 - 6 Throughout this standard the term "flexible cable" means "flexible cable or cord".

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3 Definitions

Replace subclause 3.3.101 by the following:

3.3.101 cord switch: Separately enclosed switch intended to be connected to a supply and/or to an appliance or equipment by means of flexible cable(s).

NOTE – The flexible cable(s) may enter the switch enclosure in any direction and may be in line with the enclosure.



Replace subclauses 3.5.101 and 3.5.102 by the following:

3.5.101 rewirable switch: Switch having terminals or a method of attachment of the flexible cable so that the external conductors can be replaced.

3.5.102 non-rewirable switch: Switch being so constructed that it forms a constructional unit with the flexible cable after connection and assembly, and that the external conductors cannot be replaced without destroying or breaking the switch.

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7 Classification

Replace subclause 7.1.101 by the following:

7.1.101 According to the connection to the switch:

7.1.101.1 – rewirable switch.

7.1.101.2 – non-rewirable switch.

Replace subclause 7.1.103 by the following:

7.1.103 According to the type of flexible cable for which the switch is suitable:

7.1.103.1 – switches suitable for the connection of round flexible cables;

7.1.103.2 – switches only suitable for the connection of flat cords;

7.1.103.3 – switches suitable for the connection of both round flexible cables and flat cords.

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8 Marking and documentation

Table 2 – Switch information

Addition:

No.	Information	Subclause	Type of information	
			Switch with common type reference CT	Switch with unique type reference UT
5	TERMINALS/CONDUCTORS			
5.101	If a switch is non-rewirable, this shall be documented	7.1.101.2	Do	Do
5.102	If a switch is suitable only for use with flat cords, this shall be documented	7.1.103.2	Do	Do
10	SWITCH CATEGORY			
10.101	Category of type of luminaire according to IEC 598-1 with which the switch may be used		Do	Do

9 Protection against electric shock

Replace the additions to 9.1 by the following:

9.1 Addition:

For cord switches the test is made when the switch is fitted with flexible cables of the smallest or of the largest nominal cross-sectional area specified in table 3, whichever is the more unfavourable.

Additional subclause:

9.101 *Non-rewirable switches are tested with the flexible cables as fitted by the manufacturer.*

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12 Construction

Replace subclause 12.1.101 by the following:

12.1.101 If solder terminals are classified according to 7.2.12, additional provisions for securing the conductors shall be provided.

Replace subclauses 12.3.101, 12.3.103, and 12.3.105 to 12.3.107 on page 17 by the following:

12.3.101 Cord switches shall have cord anchorages so that the conductors are relieved from strain, including twisting, where they are connected to the terminals, and that the sheath of the flexible cable is protected from abrasion and kept in position.

12.3.103 Makeshift methods, such as tying the flexible cable into a knot, or tying the ends with string, shall not be used.

12.3.105 For rewirable cord switches, the cord anchorages shall be so designed that their parts do not fall out when the cover of the switch is removed, even if the switches are not fitted with their flexible cables.

12.3.106 Cord anchorages shall be so designed that:

- for any attachment method, the flexible cable is not fixed by penetration of its insulation in such a way that the insulation of the flexible cable is cut or otherwise significantly damaged;

NOTE – A soft deformation of the insulation in such a way that the insulation of the flexible cable is not cut or otherwise significantly damaged is allowed.

- the flexible cable cannot touch clamping screws of the cord anchorage, if these screws are accessible or electrically connected to accessible metal parts;
- the flexible cable is not clamped by a screw which bears directly on the flexible cable, except where the screw is made of insulating material;

- for rewirable switches, at least one part is securely fixed to the switch;
- for rewirable switches, replacement of the flexible cable does not require the use of a special purpose tool;
- for rewirable switches, they are suitable for the different types of flexible cables which may be connected.

12.3.107 Cord anchorages for rewirable switches shall be so designed and located that replacement of the flexible cable is easily possible.

Compliance with the requirements of 12.3.101 to 12.3.107 is checked by inspection and by a pull test in an apparatus similar to that shown in figure 101, followed by a torque test in an apparatus similar to that shown in figure 104:

- *non-rewirable switches are tested with the flexible cable as delivered and three new test specimens shall be used for the tests;*
- *three new rewirable switches are tested with PVC sheathed flexible cables having the smallest and largest cross-sectional area as shown in table 101. Before the test, the free length of the flexible cable shall be cut to 150 mm ± 5 mm;*
- *rewirable switches provided with entries specially designed for the connection of PVC insulated flat flexible cables (227 IEC 52) are tested with flat flexible cables only.*

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Replace the title of table 101 by the following:

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Table 101 – Rated currents and related types of flexible cables

Replace the heading of the first column of table 101 by the following:

Rated current
A

Replace the heading of the fourth column of table 101 by the following:

Types of flexible cables according to IEC 227
fl = flat

Replace the remainder of subclause 12.3.107, after table 101, and subclauses 12.3.108 to 12.3.111 by the following:

Conductors of the flexible cable are introduced into the terminals of rewirable switches, and the terminal metal screws are tightened just sufficiently to prevent the conductors from easily changing their position.

The cord anchorage is used in the normal way, clamping screws being tightened with two-thirds of the torque specified in 19.2 and insulating material screws with two-thirds of the torque specified in table 103. After reassembly of the switch, its component parts shall fit snugly and it shall not be possible to push the flexible cable into the switch to any appreciable extent.