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Miniature fuses - Part 6: Fuse-holders for miniature fuse-links - Amendment A2  
(IEC 60127-6:1994/A2:2002)

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EUROPEAN STANDARD

**EN 60127-6/A2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2003

ICS 29.120.50

English version

**Miniature fuses**  
**Part 6: Fuse-holders for miniature fuse-links**  
(IEC 60127-6:1994/A2:2002)

Coupe-circuit miniatures  
Partie 6: Ensembles-porteurs  
pour éléments de remplacement  
miniatures  
(CEI 60127-6:1994/A2:2002)

Geräteschutzsicherungen  
Teil 6: G-Sicherungshalter  
für G-Sicherungseinsätze  
(IEC 60127-6:1994/A2:2002)

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This amendment A2 modifies the European Standard EN 60127-6:1994; it was approved by CENELEC on 2003-02-01. CENELEC members are bound to comply with the 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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 32C/320/FDIS, future amendment 2 to IEC 60127-6:1994, prepared by SC 32C, Miniature fuses, of IEC TC 32, Fuses, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 60127-6:1994 on 2003-02-01.

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) 2003-11-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2006-02-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A, B and ZA are normative and annex E is informative.

Annex ZA has been added by CENELEC.

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### Endorsement notice

## iTeh STANDARD PREVIEW

The text of amendment 2:2002 to the International Standard IEC 60127-6:1994 was approved by CENELEC as an amendment to the European Standard without any modification.

[SIST EN 60127-6:1995/A2:2004](https://standards.iteh.ai/catalog/standards/sist/ce5fb1cb-40a5-45fb-8dB-e8af43a6b55f/sist-en-60127-6-1995-a2-2004)

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**Annex ZA**  
(normative)

**Normative references to international publications  
with their corresponding European publications**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
<b>Delete</b> the reference to IEC 536:1976.				
<b>Replace</b> IEC 999:1990 by:				
IEC 60999-1	1999	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm <sup>2</sup> up to 35 mm <sup>2</sup> (included)	EN 60999-1	2000
<b>Add:</b>				
IEC 61140	2001	Protection against electric shock - Common aspects for installation and equipment	EN 61140	2002
IEC 61210 (mod)	1993	Connecting devices - Flat quick-connect terminations for electrical copper conductors - Safety requirements	EN 61210	1995

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NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC  
60127-6

1994

AMENDEMENT 2  
AMENDMENT 2  
2002-12

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Amendement 2

**Coupe-circuit miniatures –**

**Partie 6:**  
**Ensembles-porteurs pour cartouches**  
**de coupe-circuit miniatures**  
(standards.iteh.ai)

Amendment 2  
<https://standards.iteh.ai/catalog/standards/sist/ce5fb1cb-40a5-45fb-8dfb-8a213a6b5577/sist-en-60127-6-1995-a2-2004>

**Miniature fuses –**

**Part 6:**  
**Fuse-holders for miniature cartridge**  
**fuse-links**

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

CODE PRIX  
PRICE CODE

N

Pour prix, voir catalogue en vigueur  
For price, see current catalogue

## FOREWORD

This amendment has been prepared by subcommittee 32C: Miniature fuses, of IEC technical committee 32: Fuses.

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

FDIS	Report on voting
32C/320/FDIS	32C/328/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.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until 2004. At this date, the publication will be

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

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Page 11

[SIST EN 60127-6:1995/A2:2004](https://standards.iteh.ai/catalog/standards/sist/ce5fb1cb-40a5-45fb-8dB-e8af43a6b55f/sist-en-60127-6-1995-a2-2004)

### 2 Normative references

*Delete, on page 13, the reference IEC 536:1976*

Page 3 of Amendment 1

*Replace IEC 999:1990 by the following new normative document:*

IEC 60999-1:1999, *Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units – Part 1: General requirements and particular requirements for conductors from 0,2 mm<sup>2</sup> up to 35 mm<sup>2</sup> (included)*

*Add, in numerical order, the title of the following normative documents:*

IEC 61140:2001, *Protection against electric shock – Common aspects for installation and equipment*

IEC 61210:1993, *Connecting devices – Flat quick-connect terminations for electrical copper conductors – Safety requirements*



### 3 Definitions

Replace, on page 15, the existing subclauses 3.1.3, 3.1.4 and 3.1.5 by the following new subclauses:

#### 3.1.3

##### **fuse-holder**

combination of a fuse-base with its fuse-carrier

NOTE In some fuse-holder constructions where the fuse-base and the fuse-carrier are not separate parts the fuse-holder may consist of only the fuse-base and no fuse-carrier.

#### 3.1.4

##### **unexposed fuse-holder**

fuse-holder with enclosed contacts

#### 3.1.5

##### **exposed fuse-holder**

fuse-holder with exposed contacts (e.g. clips)

Replace the existing subclauses 3.3, 3.4 and 3.5 by the following new subclauses:

#### 3.3

##### **rated power acceptance (of a fuse-holder)**

value of power acceptance of a fuse-holder assigned by the manufacturer

NOTE This value is the maximum power dissipation produced by the inserted dummy fuse-link during testing, at the rated current tolerated by the fuse-holder without exceeding the specified temperatures.

The rated power acceptance is referred to an ambient temperature of 23 °C without exceeding the specified temperature.

#### 3.4

##### **rated current (of a fuse-holder)**

value of current of a fuse-holder assigned by the manufacturer and to which the rated power acceptance is referred

#### 3.5

##### **rated voltage (of a fuse-holder)**

value of voltage of a fuse-holder assigned by the manufacturer and to which operation and performance characteristics are referred

Replace, on page 17, the existing note of 3.21 by the following new note:

NOTE For detailed information, see IEC 61140 and IEC 60664-1.

Add, on page 19, the following new term:

#### 3.22

##### **inaccessible part (inaccessible surface)**

part or surface inside the equipment and which cannot be touched by means of the standard test finger according to IEC 60529

## 5 Preferred ratings and classifications for fuse-holders

**Table 2 – Values for standard ratings and classifications**

Replace the existing table 2 by the following new table:

No.	Preferred ratings and classifications for fuse-holders	For fuse-links according to	
		IEC 60127-2	IEC 60127-3
5.1	Rated voltage	250 V	125 V and 250 V
5.2	Rated current	6,3 A / 10 A	5 A
5.3	Rated power acceptance at an ambient temperature $T_{A1}$ of 23 °C	1,6 W / 2,5 W / 4 W	1,6 W / 2,5 W
5.4	Protection against electric shock referring to fuse-holder	Category PC1 Category PC2 Category PC3	
5.5	Protection against electric shock referring to equipment, according to IEC 61140	Class I or II	
5.6	Insulation coordination according to IEC 60664-1: a) Overvoltage category b) Pollution degree c) Comparative tracking index CTI	II or III 2 or 3 CTI ≥ 150	

NOTE In reference to ratings (voltage, current, power acceptance), if other values are required, these values should be selected from the R10 series according to ISO 3. For classifications (No. 5.6), other values may be specified.

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Add, after table 2, the following new sentence:

Complete information on ratings and classifications is given by the manufacturer according to annex E.

Page 21

## 7 Information for the user of fuse-holders

Delete the title and contents of this clause and keep clause number 7 vacant.

Page 23

### 8.5 Gauges for tests

Replace the titles of subclauses 8.5 and 8.5.1 by the following new titles:

### 8.5 Gauges and dummy fuse-links for tests

#### 8.5.1 Gauges and dummy fuse-links according to IEC 60127-2

Replace the title of figure 1 by the following new title:

**Figure 1 – Outline of gauges and dummy fuse-links**

Replace the title of table 3 as follows:

**Table 3 – Dimensions and materials for gauges according to IEC 60127-2**

Insert, after the last paragraph of 8.5.1, the following new paragraphs and the new table 18:

For tests that require dummy fuse-links, the appropriate dummy fuse-link mentioned in table 18 shall be used.

**Table 18 – Dimensions and materials for dummy fuse-links according to IEC 60127-2**

Dummy fuse-link for cartridge fuse-links	L mm	D1 mm	D2 mm	B mm	Mass (approximately) g	Materials of part	
						C	T
5 mm × 20 mm	19,46 <sup>+0,08</sup> <sub>0</sub>	5,0 ± 0,2	4,2 ± 0,1	5,0 ± 0,1	2	Brass end caps <sup>a</sup>	Ceramic tube
6,3 mm × 32 mm	30,96 <sup>+0,08</sup> <sub>0</sub>	6,25 ± 0,2	5,5 ± 0,1	6,0 ± 0,1	3	Brass end caps <sup>a</sup>	Ceramic tube

<sup>a</sup> Brass with copper content from 58 % to 70 %, surface with 2 µm (minimum) nickel plating (galvanic).

There shall be no holes in the ends of the dummy fuse-links.

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Replace the title of 8.5.2 by the following new title:

**8.5.2 Gauges and dummy fuse-links according to IEC 60127-3**

Replace the titles of figures 2 and 3 by the following new titles:

**Figure 2 – Outline of gauges and dummy fuse-links according to standard sheet 1**

**Figure 3 – Outline of gauges and dummy fuse-links according to standard sheets 3 and 4**