

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Miniature fuses –  
Part 2: Cartridge fuse-links**

**Coupe-circuit miniatures –  
Partie 2: Cartouches**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## MINIATURE FUSES –

## Part 2: Cartridge fuse-links

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International Standard IEC 60127-2 has been prepared by subcommittee 32C: Miniature fuses, of IEC technical committee 32: Fuses.

The major changes are as follows:

- Addition of Standard Sheet 6: Enhanced breaking capacity fuse-links 5 mm × 20 mm
- Addition of Annex A: Miniature fuse-links with wire terminations
- Addition of homogeneous series testing.

This consolidated version of IEC 60127-2 consists of the second edition (2003) [documents 32C/326/FDIS and 32C/333/RVD], its amendment 1 (2003) [documents 32C/338/FDIS and 32C/344/RVD] and its amendment 2 (2010) [documents 32C/432/FDIS and 32C/433/RVD].

The technical content is therefore identical to the base edition and its amendments and has been prepared for user convenience.

It bears the edition number 2.2.

A vertical line in the margin shows where the base publication has been modified by amendments 1 and 2.

This standard should be read in conjunction with IEC 60127-1 (hereinafter referred to as Part 1).

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

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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- withdrawn,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

## INTRODUCTION

According to the wish expressed by the users of miniature fuses, all standards, recommendations and other documents relating to miniature fuses should have the same publication number in order to facilitate reference to fuses in other specifications, for example, equipment specifications.

Furthermore, a single publication number and subdivision into parts would facilitate the establishment of new standards, because Clauses containing general requirements need not be repeated.

The new IEC 60127 series, under the general heading *Miniature fuses*, is thus subdivided as follows:

IEC 60127-1:1988, *Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links*

IEC 60127-2:2002, *Miniature fuses – Part 2: Cartridge fuse-links*

IEC 60127-3, *Miniature fuses – Part 3: Sub-miniature fuse-links*

IEC 60127-4, *Miniature fuses – Part 4: Universal modular fuse-links*

IEC 60127-5, *Miniature fuses – Part 5: Guidelines for quality assessment of miniature fuse-links*

IEC 60127-6, *Miniature fuses – Part 6: Fuse-holders for miniature fuse-links*

IEC 60127-7, (Free for further documents)

IEC 60127-8, (Free for further documents)

IEC 60127-9, (Free for further documents)

IEC 60127-10, *Miniature fuses – Part 10: User guide*

This Part 2 covers additional requirements, test equipment and standard sheets.

The SI system of units is used throughout this standard.

## MINIATURE FUSES –

### Part 2: Cartridge fuse-links

#### 1 Scope and object

This part of IEC 60127 relates to special requirements applicable to cartridge fuse-links for miniature fuses with dimensions measuring 5 mm × 20 mm and 6,3 mm × 32 mm for the protection of electric appliances, electronic equipment and component parts thereof, normally intended for use indoors.

It does not apply to fuses for appliances intended to be used under special conditions, such as in corrosive or explosive atmospheres.

This standard applies in addition to the requirements of Part 1.

The object of this standard is to define special and additional test methods for cartridge fuse-links applying in addition to the requirements of Part 1.

#### 2 Normative references

The following referenced documents are indispensable for the application 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 60068-2-20:1979, *Environmental testing – Part 2: Tests – Test T: Soldering*

IEC 60068-2-21:1999, *Environmental testing – Part 2-21: Tests – Test U: Robustness of terminations and integral mounting devices*

IEC 60127-1:1988, *Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links*<sup>1</sup>  
Amendment 1 (1999)

IEC 60249-2-5:1987, *Base materials for printed circuits – Part 2: Specifications – Specification No. 5: Epoxide woven glass fabric copper-clad laminated sheet of defined flammability (vertical burning test)*

ISO 3:1973, *Preferred numbers – Series of preferred numbers*

#### 3 Definitions

For the purposes of this part of IEC 60127, the definitions contained in Clause 3 of Part 1 apply.

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<sup>1</sup> There is a consolidated edition 1.1 (1999) including IEC 60127-1 (1988) and Amendment 1 (1999).