

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 1  
AMENDEMENT 1

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**Low-voltage electrical installations –  
Part 4-42: Protection for safety – Protection against thermal effects**

**Installations électriques basse tension –  
Partie 4-42: Protection pour assurer la sécurité – Protection contre les effets  
thermiques**





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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
Fax: +41 22 919 03 00  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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## FOREWORD

This amendment has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock.

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

FDIS	Report on voting
64/1974/FDIS	64/1982/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 this amendment and the base publication 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- withdrawn,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.

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*Add, at the end of 420.2, the following new reference:*

IEC 62606, *General requirements for arc fault detection devices*

*Add, after 421.6, the following new clause:*

**421.7** It is recommended that special measures be taken to protect against the effects of arc faults in final circuits:

- in premises with sleeping accommodation;
- in locations with risks of fire due to the nature of processed or stored materials, i.e. BE2 locations, (e.g. barns, wood-working shops, stores of combustible materials);
- in locations with combustible constructional materials, i.e. CA2 locations (e.g. wooden buildings);
- in fire propagating structures, i.e. CB2 locations;
- in locations with endangering of irreplaceable goods.

NOTE 1 A material is considered to be non-combustible if, in compliance with ISO 1182 [31] and ISO 1716 [32], it does not support combustion.

In a.c. circuits, the use of arc fault detection devices (AFDD) in compliance with IEC 62606 will satisfy the above-mentioned recommendation.