



**NSAI**  
Standards

Irish Standard  
I.S. EN IEC 61333:2019

# Marking on ferrite cores

**I.S. EN IEC 61333:2019**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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EUROPEAN STANDARD

**EN IEC 61333**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2019

ICS 29.035; 29.100.10

Supersedes EN 61333:1998 and all of its amendments  
and corrigenda (if any)

English Version

## Marking on ferrite cores (IEC 61333:2019)

Marquage des noyaux ferrites  
(IEC 61333:2019)

Kennzeichnung von Ferritkernen  
(IEC 61333:2019)

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

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## **EN IEC 61333:2019 (E)**

### **European foreword**

The text of document 51/1247/CDV, future edition 2 of IEC 61333, prepared by IEC/TC 51 "Magnetic components, ferrite and magnetic powder materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61333:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-06-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-09-03

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IEC 60062      NOTE      Harmonized as EN 60062



**IEC 61333**

Edition 2.0 2019-07

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Marking on ferrite cores**

**Marquage des noyaux ferrites**



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**IEC 61333**

Edition 2.0 2019-07

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Marking on ferrite cores**

**Marquage des noyaux ferrites**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

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## MARKING ON FERRITE CORES

## FOREWORD

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International Standard IEC 61333 has been prepared by IEC technical committee 51: Magnetic components, ferrite and magnetic powder materials.

This second edition cancels and replaces the first edition published in 1996. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the title of the document was changed;
- b) the scope of this document was expanded;
- c) the marking position instructions for ring cores, planar cores, RM-cores, PQ-cores and pot-cores were added in Clause 4 with a few additional descriptions;
- d) the four-digit-maximum limit of material identification code has been deleted in 5.2;
- e) in Table 1, the unit of  $A_L$  has been changed from "nH" to "nH/N<sup>2</sup>".

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

CDV	Report on voting
51/1247/CDV	51/1290/RVC

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

## MARKING ON FERRITE CORES

### 1 Scope

This document specifies marking locations and a coding system of marking on ferrite cores. An alphanumerical marking printed or attached to cores reduces the risk of incorrect assembly, mixing of materials and/or mixing of gapped cores on an assembly line. The markings of the inductance factor  $A_L$  value or of the gap length are especially important to avoid this kind of problem, and their coding system is specified in this document.

### 2 Normative references

There are no normative references in this document.

### 3 Terms and definitions

No terms and definitions are listed in this document.

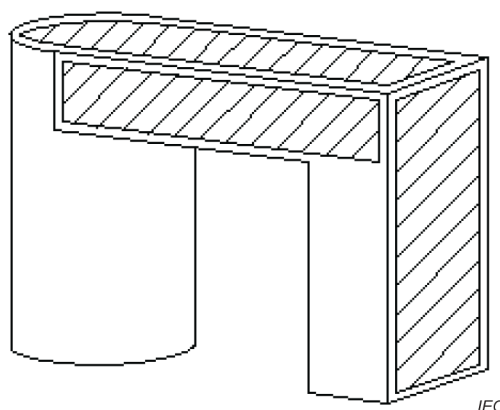
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- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

### 4 Marking locations

The recommended marking locations for the various core shapes are indicated in Figure 1 to Figure 7:

- the shaded parts in Figures 1 to 7 represent the marking locations;
- the marking locations of ETD-, EER-, EC-, EFD- and EP-cores refer to the E-core.



**Figure 1 – Examples of marking locations for U-cores**

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