



NSAI
Standards

Irish Standard
I.S. EN 60286-1:2017&A1:2021

Packaging of components for automatic handling - Part 1: Tape packaging of components with axial leads on continuous tapes

I.S. EN 60286-1:2017&A1:2021

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 60286-1:2017/A1:2021

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National Foreword

I.S. EN 60286-1:2017&A1:2021 is the adopted Irish version of the European Document EN 60286-1:2017, Packaging of components for automatic handling - Part 1: Tape packaging of components with axial leads on continuous tapes

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60286-1:2017/A1

May 2021

ICS 31.020; 31.240

English Version

**Packaging of components for automatic handling - Part 1: Tape
packaging of components with axial leads on continuous tapes
(IEC 60286-1:2017/A1:2021)**

Emballage des composants pour opérations automatisées -
Partie 1: Mise en bande des composants à sorties axiales
en bandes continues
(IEC 60286-1:2017/A1:2021)

Gurtung und Magazinierung von Bauelementen für
automatische Verarbeitung - Teil 1: Gurtung von
Bauelementen mit axialen Anschlüssen
(IEC 60286-1:2017/A1:2021)

This amendment A1 modifies the European Standard EN 60286-1:2017; it was approved by CENELEC on 2021-05-12. 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.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 60286-1:2017/A1:2021 (E)

European foreword

The text of document 40/2822/FDIS, future IEC 60286-1/A1, prepared by IEC/TC 40 "Capacitors and resistors for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60286-1:2017/A1:2021.

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) 2022-02-12
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-05-12

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60286-1

November 2017

ICS 31.020; 31.240

Supersedes EN 60286-1:1998

English Version

**Packaging of components for automatic handling -
Part 1: Tape packaging of components with axial leads
on continuous tapes
(IEC 60286-1:2017)**

Emballage des composants pour opérations automatisées -
Partie 1: Emballage des composants à sorties axiales
en bandes continues
(IEC 60286-1:2017)

Gurtung und Magazinierung von Bauelementen für
automatische Verarbeitung - Teil 1: Gurtung von
Bauelementen mit axialen Anschlüssen
(IEC 60286-1:2017)

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

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EN 60286-1:2017

European foreword

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

| | | |
|-------------|------|---------------------------|
| IEC 60286-2 | NOTE | Harmonized as EN 60286-2. |
| IEC 60286-3 | NOTE | Harmonized as EN 60286-3. |
| IEC 60301 | NOTE | Harmonized as EN 60301. |

Annex ZA
(normative)

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

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|--------------|-------------|
| IEC 60294 | - | Measurement of the dimensions of a cylindrical component with axial terminations | EN 60294 | - |
| ISO 11469 | - | Plastics - Generic identification and marking of plastics products | EN ISO 11469 | - |

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IEC 60286-1

Edition 3.0 2017-07

INTERNATIONAL STANDARD

**Packaging of components for automatic handling –
Part 1: Tape packaging of components with axial leads on continuous tapes**



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IEC 60286-1

Edition 3.0 2017-07

INTERNATIONAL STANDARD

**Packaging of components for automatic handling –
Part 1: Tape packaging of components with axial leads on continuous tapes**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 31.020; 31.240

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CONTENTS

| | |
|--|----|
| FOREWORD..... | 3 |
| 1 Scope | 5 |
| 2 Normative references | 5 |
| 3 Terms and definitions | 5 |
| 4 Dimensions..... | 5 |
| 4.1 Dimensions common to tapes and taped components with axial leads | 5 |
| 4.1.1 General | 5 |
| 4.1.2 Body location (permissible lateral deviation) | 7 |
| 4.1.3 Tape spacing | 7 |
| 4.2 Taping | 7 |
| 4.2.1 General | 7 |
| 4.2.2 Orientation of polarized components..... | 8 |
| 4.2.3 Position, kinks and bends of the leads | 8 |
| 4.2.4 The ends of the leads | 8 |
| 4.2.5 Holding in the tape | 8 |
| 4.2.6 Requirements of tape material, storage, and handling | 8 |
| 4.2.7 Splices of tape..... | 8 |
| 4.2.8 Leader tape | 8 |
| 5 Packing | 8 |
| 5.1 General..... | 8 |
| 5.2 Dimensions of the reel | 9 |
| 5.3 Distances W_1 and W_2 | 9 |
| 5.4 Recycling | 9 |
| 5.5 Protection of components | 9 |
| 5.6 Reel filling..... | 9 |
| 5.7 Dimensions of the fan-fold container | 10 |
| 5.8 Missing components | 10 |
| 6 Marking | 10 |
| Annex A (informative) Cross-reference for references to the previous edition of this document..... | 11 |
| Bibliography..... | 12 |
| Figure 1 – Dimensions for tape packaging of components with axial leads | 6 |
| Figure 2 – Reel dimensions | 9 |
| Figure 3 – Outer dimensions of the fan-fold arrangement..... | 10 |
| Table 1 – Tape widths and permissible variation | 6 |
| Table 2 – Component spacing and permissible deviation | 7 |
| Table 3 – Tape spacing..... | 7 |
| Table A.1 – Cross-reference to clauses | 11 |

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING –

Part 1: Tape packaging of components with axial leads on continuous tapes

FOREWORD

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International Standard IEC 60286-1 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This third edition cancels and replaces the second edition published in 1997. This edition constitutes a technical revision.

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

- a) a complete revision of the structure (detailed in Annex A) and reworked layout.

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

| FDIS | Report on voting |
|--------------|------------------|
| 40/2538/FDIS | 40/2552/RVD |

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.

A list of all parts of the IEC 60286 series, under the general title *Packaging of components for automatic handling*, can be found on the IEC website.

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

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

A bilingual version of this publication may be issued at a later date.

PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING –

Part 1: Tape packaging of components with axial leads on continuous tapes

1 Scope

This part of IEC 60286 applies to the tape packaging of components with axial leads for use in electronic equipment. In general, the tape is applied to the component leads.

It covers requirements for taping techniques used with equipment for the preforming of leads, automatic handling, insertion and other operations, and includes only those dimensions which are essential to the taping of components intended for the above-mentioned purposes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60294, *Measurement of the dimensions of a cylindrical component with axial terminations*

ISO 11469, *Plastics – Generic identification and marking of plastic products*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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

4 Dimensions

4.1 Dimensions common to tapes and taped components with axial leads

4.1.1 General

The general configuration is shown in Figure 1, Table 1 and Table 2.

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