



SLOVENSKI STANDARD

SIST EN 60094-7:1999

01-april-1999

Magnetic tape sound recording and reproducing systems -- Part 7: Cassette for commercial tape records and domestic use (IEC 60094-7:1986)

Magnetic tape sound recording and reproducing systems -- Part 7: Cassette for commercial tape records and domestic use

Systeme für Tonaufzeichnung und -wiedergabe auf Magnetband -- Teil 7: Magnetbandkassette für vorbespieltes Band und für Heimanwendung

Systèmes d'enregistrement et de lecture du son sur bandes magnétiques -- Partie 7: Cassette pour enregistrements du commerce et à usage grand public

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ICS:

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EUROPEAN STANDARD

EN 60094-7

NORME EUROPEENNE

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October 1993

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Descriptors: Magnetic tape recording, sound recording and reproduction, cassette for magnetic tape, mechanical characteristic, dimension

ENGLISH VERSION

Magnetic tape sound recording and reproducing systems
Part 7: Cassette for commercial tape records and domestic use
(IEC 94-7:1986)

Systèmes d'enregistrement et de lecture du son sur bandes magnétiques
Septième partie: Cassette pour enregistrements du commerce et à usage grand public
(CEI 94-7:1986)

Systeme für Tonaufzeichnung und -wiedergabe auf Magnetband
Teil 7: Magnetbandkassette für vorbespieltes Band und für Heimanwendung
(IEC 94-7:1986)

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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 European Standard 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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

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EN 60094-7:1993

FOREWORD

As a consequence of the IEC-CENELEC Agreement, HD 311.7 S1:1988 (IEC 94-7:1986) was submitted to the CENELEC voting procedure for conversion into a European Standard.

The text of the International Standard was approved by CENELEC as EN 60094-7 on 22 September 1993.

The following dates were fixed:

- latest date of publication of
an identical national standard (dop) 1994-10-01
- latest date of withdrawal of
conflicting national standards (dow) -

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative.

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ENDORSEMENT NOTICE

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The text of the International Standard IEC 94-7:1986 was approved by CENELEC as a European Standard without any modification.

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

NOTE : When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

| IEC Publication | Date | Title | EN/HD | Date |
|--------------------|------|---|------------|------|
| ----- | ---- | ----- | ----- | ---- |
| 94-1 | 1981 | Magnetic tape sound recording and reproducing systems - Part 1: General conditions and requirements | EN 60094-1 | 1993 |
| 94-5 | 1988 | Part 5: Electrical magnetic tape properties | EN 60094-5 | 1993 |

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

60094-7

Première édition
First edition
1986-01

**Systèmes d'enregistrement et de lecture du son
sur bandes magnétiques –**

**Septième partie:
Cassette pour enregistrements du commerce
et à usage grand public**

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**Magnetic tape sound recording and reproducing
systems –**

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**Part 7:
Cassette for commercial tape records and
domestic use**

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MAGNETIC TAPE SOUND RECORDING AND REPRODUCING SYSTEMS

Part 7: Cassette for commercial tape records and domestic use

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.
- 4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

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PREFACE

This standard has been prepared by Sub-Committee 60A: Sound Recording, of IEC Technical Committee No. 60: Recording.

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

| Six Months' Rule | Report on Voting | Two Months' Procedure | Report on Voting |
|--|--|-----------------------|------------------|
| 60A(CO)53 60A(CO)55 60A(CO)72 60A(CO)80 | 60A(CO)60 60A(CO)59 60A(CO)76 60A(CO)93 | 60A(CO)64 | 60A(CO)66 |

Further information can be found in the relevant Reports on Voting indicated in the table above.

The following IEC publications are quoted in this standard:

Publication Nos. 94-1 (1981): Magnetic Tape Sound Recording and Reproducing Systems. Part 1: General Conditions and Requirements.

94-5 (—): Part 5: Electrical Magnetic Tape Properties. (In preparation.)

IEC Publication 94 and its supplements are under revision. The new IEC Publication 94 will be issued in several parts, of which this is Part 7.

It will have the following parts:

Part 1: General conditions and requirements

General: electrical requirements for the magnetic tape recording and reproducing systems; mechanical requirements for the magnetic tape; tape identification; programme identification (Fourth edition).

Part 2: Calibration tapes

Minimum requirements for calibration tapes for making adjustments and comparative assessments of the reproducing performance (First edition 1975).

Part 3: Methods of measuring the characteristics of recording and reproducing equipment for sound on magnetic tape
(First edition 1979)

Part 4: Mechanical magnetic tape properties

Characteristics to be specified and relevant methods of measurement. Equipment to be used to determine the mechanical properties of magnetic tapes.

Part 5: Electrical magnetic tape properties

Characteristics to be specified, methods of measurement and equipment to be used for the determination of the electrical properties of magnetic tape for analogue sound recording and reproduction.

Part 6: Reel-to-reel systems

Mechanical requirements and dimensions, including reels, hubs and relevant track allocations.

Part 7: Cassette for commercial tape records and domestic use

Mechanical requirements and dimensions, including track allocations (based on IEC Publication 94A, First edition 1972).

Part 8: Eight-track magnetic tape cartridge for commercial tape records and domestic use

Mechanical requirements and dimensions, including track allocation (based on IEC Publication 94B, First edition 1974).

Part 9: Magnetic tape cartridge for professional use

Mechanical requirements and dimensions, including track allocation.

Part 10: Time and address codes. (In preparation.)

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MAGNETIC TAPE SOUND RECORDING AND REPRODUCING SYSTEMS

Part 7: Cassette for commercial tape records and domestic use

EXPLANATORY NOTES

This Part 7 of IEC Publication 94 shall be used in conjunction with the fourth edition (1981) of IEC Publication 94-1: Magnetic Tape Sound Recording and Reproducing Systems, Part 1: General Conditions and Requirements.

The clause numbers in this part correspond to those in IEC Publication 94-1 and any text given in this part shall modify the text given in IEC Publication 94-1. Absence of text in this part indicates that the provisions of the relevant clause in IEC Publication 94-1 apply.

SECTION ONE — GENERAL

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1. Scope

This part applies only to cassette recording and reproducing systems.

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SECTION TWO — MECHANICAL REQUIREMENTS

12. Replacement:

Mechanical requirements and dimensions of cassette recording systems

Constructional data which standardize the cassette to secure interchangeability of cassettes on any cassette recorder or player are given in Figures 1 to 12, pages 16 to 24.

The X-, Y- and Z-reference planes in the figures have been defined as follows:

- The Z-reference plane is the plane established by three points which are positioned half of the distance between three reference areas U, V and W on one cassette side and three corresponding ones on the other side (see Figure 9, page 22).
- The X-reference plane per cassette side is defined as the common tangential plane at the rear of both positioning holes per side, perpendicular to the Z-reference plane.
- The Y-reference plane is defined perpendicular to the relevant X- and the Z-reference plane and is situated at the mid-point of the centres of the reference holes (see Section D-D in Figure 2, page 17).

Note. — These definitions show that a cassette can fulfil the dimensional requirements in this standard only on the basis of two X-reference planes and two Y-reference planes.

Furthermore, the following requirements shall apply: