



SLOVENSKI STANDARD
SIST EN 60094-5:1999/A1:1999
01-april-1999

Magnetic tape sound recording and reproducing systems -- Part 5: Electrical magnetic tape properties - Amendment A1(IEC 60094-5:1988/A1:1996)

Magnetic tape sound recording and reproducing systems -- Part 5: Electrical magnetic tape properties

Systeme für Tonaufzeichnung und -wiedergabe auf Magnetband -- Teil 5: Elektrische Eigenschaften von Magnetbändern

Systèmes d'enregistrement et de lecture du son sur bandes magnétiques -- Partie 5: Propriétés électriques des bandes magnétiques

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Ta slovenski standard je istoveten z: EN 60094-5:1993/A1:1996

ICS:

33.160.30 Avdio sistemi Audio systems

SIST EN 60094-5:1999/A1:1999 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60094-5/A1

March 1996

UDC 621.396.7:681.8
ICS 33.160.30

Descriptors: Sound recording, magnetic tape, electrical property

English version

Magnetic tape sound recording and reproducing systems
Part 5: Electrical magnetic tape properties
(IEC 94-5:1988/A1:1996)

Systèmes d'enregistrement et de lecture
du son sur bandes magnétiques
Partie 5: Propriétés électriques des
bandes magnétiques
(CEI 94-5:1988/A1:1996)

Systeme für Tonaufzeichnung
und -wiedergabe auf Magnetband
Teil 5: Elektrische Eigenschaften
von Magnetbändern
(IEC 94-5:1988/A1:1996)

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This amendment A1 modifies the European Standard EN 60094-5:1993; it was approved by CENELEC on 1996-03-05. 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.

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 amendment 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 60094-5:1993/A1:1996

Foreword

The text of document 60A/178/FDIS, future amendment 1 to IEC 94-5:1988, prepared by SC 60A (transformed into SC 100B, Recording, of IEC TC 100, Audio, video and multimedia systems and equipment), was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 60094-5:1993 on 1996-03-05.

The following dates were fixed:

- latest date by which the amendment has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1996-12-01
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 1996-12-01

Endorsement notice

The text of amendment 1:1996 to the International Standard IEC 94-5:1988 was approved by CENELEC as an amendment to the European Standard without any modification.

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
94-5

1988

AMENDEMENT 1

AMENDMENT 1

1996-02

Amendement 1

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

Cinquième partie:

Propriétés électriques des bandes magnétiques

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Amendment 1

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

Part 5:

Electrical magnetic tape properties

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

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For price, see current catalogue

FOREWORD

This amendment has been prepared by sub-committee 60A: Sound recording, of IEC technical committee 60: Recording.

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

FDIS	Report on voting
60A/178/FDIS	100B/18/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.

SECTION TWO – TECHNICAL REQUIREMENTS AND INFORMATION
CONCERNING TESTING CONDITIONS

Page 11

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Table II

Replace the lines starting with "Domestic 6,30 mm wide" and "Domestic 3,81 mm wide" by the following new lines

<https://standards.iteh.ai/catalog/standards/sist/50d07e05-1411-44fe-9e43-c8481f5394c2/sist-en-60094-5-1999-a1-1999>

Domestic 6,30 mm wide	Full width	Full width	7 (A)	2 (N)	Four tracks two channels nos. 1 and 3	6 figure 9	Germany
Domestic 3,81 mm wide	Full width	Full width	4 (A) 1,5 (B)	1 (N)	Four tracks two channels nos. 1 and 2	7 figure 1	Japan

Add below the table: N = not specified

Page 13

2.3 Electrical characteristics of test equipment

Replace the second sentence of item i) of e) by the following:

In addition, the psophometric curve with quasi-peak detection may be used according to appendix A of IEC 268-1: *Sound system equipment – Part 1: General* (1985).

Page 17

Table III

Replace the first and fourth lines under "Domestic" by the following:

4,76	3,81	Y 348 M	A	Germany	IEC 1	Fe ₂ O ₃
4,76	3,81	MJ 507 A	A	Japan	IEC IV	Metal pigment

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Table IV

Replace the first and fourth lines by the following:

3,81	4,76	IEC 1	Y 348 M	120	3 180	+5,7	—	-6,3	12
3,81	4,76	IEC IV	MJ 507 A	70	3 180	+5,7	—	-0,3	6

Replace, under table IV, the note "*" = under consideration" by the following:

* = not specified

The alternative reference bias method shall be used according to 2.6.1b). The amount below the obtainable maximum at 6,3 kHz output shall be 4 dB at 9,5 cm/s.

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SECTION THREE. PARAMETERS TO BE MEASURED.
c8481f5394c2/sist-en-60094-5-1999-a1-1999

Page 23, note in item b), 2)

Delete the last sentence of the note.

Page 33

3.4 Reference level to bias noise ratio

Replace the second paragraph under "Method" by the following:

In addition, the psophometric curve with quasi-peak detection according to appendix A of IEC 268-1 may be used.

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3.8 Erasing attenuation

Replace "Under consideration" by the following new subclause:

Definition

Erasing attenuation

The difference, expressed in decibels, between the level of a signal recorded on tape and the remaining level of that signal on the same tape after erasure.

Method

The tape under test shall be recorded with a test signal at reference frequency.

The recorded level shall be approximately maximum output level. The reproduced voltage U_1 shall be measured. The tape under test shall then be erased by the erasing head, without any bias current in the record head.

The erasing current through the coils of the erasing head for the tape under test has a 10 % higher value than the erasing current which gives an erasing effect of 70 dB for the specified reference tape. The erasing frequency shall be equal to or higher than 80 kHz.

The erased section of the tape shall be reproduced immediately, and the residual output voltage U_2 is measured via a narrow-band filter to prevent errors due to noise.

Result

Erasing attenuation: $20 \log_{10} (U_1/U_2)$ dB

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Table VI

Replace the line relating to 3.8 by the following:

3.8 Erasing attenuation	1 000	A	A	A
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Table VII

Replace the line relating to 3.8 by the following:

3.8 Erasing attenuation	315	-	A	A
	1 000	A	B	B

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Table VIII

Replace the line relating to 3.8 by the following:

3.8 Erasing attenuation	315	A
	1 000	B

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Appendix B

B.1 IEC measuring heads

Replace the existing item a) by the following new item a):

a) *Heads for professional tape 6,30 mm wide (specified in table II)*

- | | |
|---|--------------|
| - 18 µm gap record head | Type PAM 220 |
| - 7 µm gap record head | Type PAM 227 |
| - 3 µm gap replay head
(0,75 mm distance between tracks) | Type PWM 230 |
| - Erase head | Type PLM 210 |

Heads are available from:

Bogen Electronic GmbH
Zehlendorf Potsdammer Str. 12-13
D-14163 Berlin
Germany

Replace the existing item b) by the following new item b):

b) *Heads for domestic tape 6,30 mm wide (specified in table II)*

- | | |
|------------------------|---------------|
| - 7 µm gap record head | Type PAM 227 |
| - 2 µm gap replay head | Not specified |
| - Erase head | Not specified |

Delete the existing item c).

Item d)

Replace the third line of item d) by the following:

- | | |
|-----------------------|---------------|
| -1 µm gap replay head | Not specified |
|-----------------------|---------------|

Replace the address of A-Bex by the following:

A-Bex Laboratories Inc.
2-32-13 Sakae-cho
Higashimurayama
Tokyo 189
Japan

Delete the existing item e).