



SLOVENSKI STANDARD
SIST EN 60318-1:2002
01-september-2002

Electroacoustics - Simulator of human head and ear - Part 1: Ear simulator for the calibration of supra-aural earphones (IEC 60318-1:1998)

Electroacoustics - Simulators of human head and ear -- Part 1: Ear simulator for the calibration of supra-aural earphones

Elektroakustik - Simulatoren des menschlichen Kopfes und Ohres - Teil 1: Ohrsimulator zur Kalibrierung von supra-auralen Kopfhörern

Electroacoustique - Simulateurs de tête et d'oreille humaines -- Partie 1: Simulateur d'oreille pour l'étalonnage des écouteurs supra-auraux

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Ta slovenski standard je istoveten z: EN 60318-1:1998

ICS:

13.140	Vpliv hrupa na ljudi	Noise with respect to human beings
17.140.50	Elektroakustika	Electroacoustics

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60318-1

August 1998

ICS 17.140.50

Descriptors: Audiometry, electroacoustics, earphones, calibration, artificial ears, equipment specifications, test equipment

English version

Electroacoustics - Simulators of human head and ear
Part 1: Ear simulator for the calibration of supra-aural earphones
(IEC 60318-1:1998)

Electroacoustique - Simulateurs de
tête et d'oreille humaines
Partie 1: Simulateur d'oreille pour
l'étalonnage des écouteurs supra-auraux
(CEI 60318-1:1998)

Elektroakustik - Simulatoren des
menschlichen Kopfes und Ohres
Teil 1: Ohrsimulator zur Kalibrierung
von supra-auralen Kopfhörern
(IEC 60318-1:1998)

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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

Foreword

The text of document 29/402/FDIS, future edition 1 of IEC 60318-1, prepared by IEC TC 29, Electroacoustics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60318-1 on 1998-08-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1999-05-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2001-05-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annexes A and B are informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60318-1:1998 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)**Normative references to international publications
with their corresponding 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 (including amendments).

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61094-4	1995	Measurement microphones Part 4: Specifications for working standard microphones	EN 61094-4	1995

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**NORME
INTERNATIONALE
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**CEI
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60318-1

Première édition
First edition
1998-07

**Electroacoustique –
Simulateurs de tête et d'oreille humaines –**

**Partie 1:
Simulateur d'oreille pour l'étalonnage**

**des écouteurs supra-auraux
(standards.iteh.ai)**

**Electroacoustics –
Simulators of human head and ear –**

**Part 1:
Ear simulator for the calibration
of supra-aural earphones**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**ELECTROACOUSTICS –
SIMULATORS OF HUMAN HEAD AND EAR –**
**Part 1: Ear simulator for the calibration of
supra-aural earphones**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60318-1 has been prepared by IEC technical committee 29: Electroacoustics.

This standard cancels and replaces IEC 60318:1970 and constitutes a technical revision.

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

FDIS	Report on voting
29/402/FDIS	29/412/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

Annexes A and B are for information only.

ELECTROACOUSTICS – SIMULATORS OF HUMAN HEAD AND EAR –

Part 1: Ear simulator for the calibration of supra-aural earphones

1 Scope

This International Standard relates to the specification of an ear simulator which covers the frequency band 20 Hz to 10 000 Hz and is intended for calibrating supra-aural earphones used in audiometry and telephonometry applied to the ear without acoustical leakage.

NOTE – This device is not intended for the calibration of circumaural earphones. However, IEC 60318-2 specifies an adaptor for use with this ear simulator to provide an interim acoustic coupler for the calibration of a circumaural audiometric earphone.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 61094-4:1995, *Measurement microphones – Part 4: Specifications for working standard microphones*

3 Definitions

For the purpose of this International Standard, the following definitions apply.

3.1

ear simulator

device for the calibration of earphones which incorporates a calibrated microphone for the measurement of sound pressure and an acoustic coupler. The overall acoustic impedance of the simulator approximates that of the average human ear in a given frequency band

3.2

supra-aural earphone

earphone applied externally to the outer ear

3.3

circumaural earphone

earphone having a cavity large enough to cover the region of the head including the ear