

TECHNICAL SPECIFICATION



**Electroacoustics – Simulators of human head and ear –
Part 7: Head and torso simulator for the measurement of air-conduction hearing
aids**



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Part 7: Head and torso simulator for the measurement of air-conduction hearing
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INTERNATIONAL
ELECTROTECHNICAL
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Withdrawing

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROACOUSTICS – SIMULATORS OF HUMAN HEAD AND EAR –**Part 7: Head and torso simulator for the measurement of
air-conduction hearing aids**

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC TS 60318-7, which is a Technical Specification, has been prepared by IEC technical committee 29: Electroacoustics.

This publication contains attached files in the form of 3D PDF files. These files are intended to be used as a complement and do not form an integral part of the publication.

This second edition cancels and replaces the first edition published in 2011. This edition constitutes a technical revision.

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

- a) the document is based on the designs of three different commonly used types of manikins;
- b) the cross sections of the head and torso and pinna simulators of the previous edition are replaced by maximum and minimum values of their geometric dimensions;
- c) the diffuse field frequency response of the manikin is added;
- d) the usable frequency range is extended to 100 Hz to 16 000 Hz;
- e) in addition to the cylindrical ear canal extension a tapered ear canal extension is added;
- f) design examples of one anatomically shaped manikin and of two different geometrically shaped manikins are given in the annexes;
- g) the relationship between tolerance interval, corresponding acceptance interval and the maximum permitted uncertainty of measurement are given in an annex;
- h) 3D representations of three different types of pinna simulators are given in an annex.

The text of this technical specification is based on the following documents:

Enquiry draft	Report on voting
29/907/DTS	29/921A/RVDTS

Full information on the voting for the approval of this technical specification 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 IEC 60318 series, published under the general title *Electroacoustics – Simulators of human head and ear*, 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

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