IEC TR 63079

Edition 1.2 2020-04
CONSOLIDATED VERSION

TECHNICAL REPORT

colour inside

Code of practice for hearing-loop systems (HLS)

IEC TR 63079:2017-04+AMD1:2018-09+AMD2:2020-04 CSV(en)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CODE OF PRACTICE FOR HEARING-LOOP SYSTEMS (HLS)

FOREWORD

This consolidated version of the official IEC Standard and its amendments has been prepared for user convenience.

IEC TR 63079 edition 1.1 contains the first edition (2017-04) [documents 29/917/DTR and 29/923/RVC], its amendment 1 (2018-09) [documents 29/983/DTR and 29/992/RVDTR] and its amendment 2 (2020-04) [documents 29/1037/DTR and 29/1046/RVDTR].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendments 1 and 2. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

The main task of IEC technical committees is to prepare International Standards. However, a technical committee may propose the publication of a Technical Report when it has collected data of a different kind from that which is normally published as an International Standard, for example "state of the art".

IEC TR 63079, which is a Technical Report, has been prepared by IEC technical committee 29: Electroacoustics.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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- withdrawn,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

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

The performance of induction-loop systems is specified in IEC 60118-4, whereas IEC TR 63079 gives recommendations and guidance for their design, planning, installation, testing, operation and maintenance. Provisions for components of a system are given in IEC 62489-1. Methods of calculation and measurement of the magnetic field, in the context of human exposure, are given in IEC 62489-2.

This document takes the form of guidance and recommendations. It should not be quoted as if it were a specification and particular care should be taken to ensure that claims of compliance are not misleading.

Any user claiming compliance with this document is expected to be able to justify any course of action that deviates from its recommendations.

CODE OF PRACTICE FOR HEARING-LOOP SYSTEMS (HLS)

1 Scope

This document, which is a Technical Report, gives recommendations for and guidance on the design, planning, installation, testing, operation and maintenance of a hearing-loop system (HLS) intended for communicating speech, music and/or other signals. It is mainly concerned with HLS for hearing enhancement, in which the signals are communicated to users of hearing aids equipped with magnetic pick-up coils.

This document does not apply to induction-loop systems which use a carrier frequency, nor to other systems for hearing enhancement purposes which do not use magnetic induction.

2 Normative references

~~There are no normative references in this document.~~

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 60118-4:2014, *Electroacoustics – Hearing aids – Part 4: Induction-loop systems for hearing aid purposes – System performance requirements*

IEC 60268-16, *Sound system equipment – Part 16: Objective rating of speech intelligibility by speech transmission index*

3 Terms, definitions, signs and symbols

For the purposes of this document, the following terms and definitions apply.

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

3.1 Terms and definitions

3.1.1
hearing-loop system
HLS
system including amplifier(s), microphones and/or other signal sources, in which magnetic fields are created by the flow of audio-frequency current in a conductor arranged in the form of one or more loops or a coil or solenoid

Note 1 to entry: The technical term for a hearing-loop system is "audio-frequency induction-lop system" (AFILS).

3.1.2
HLS for hearing enhancement
HLS in which the intended receivers are hearing aids or specially designed listening devices equipped with coils acting as magnetic antennas