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colour inside

Digital audio interface –
Part 1: General

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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CONTENTS

FOREWORD....4
~~INTRODUCTION to Amendment 1~~....
1 Scope....7
2 Normative references....7
3 Terms and definitions....7
4 Interface format....9
4.1 Structure of format....9
4.1.1 Sub-frame format....9
4.1.2 Frame format....10
4.2 Channel coding....11
4.3 Preambles....11
4.4 Validity bit....12
5 Channel status....12
5.1 General....12
5.2 Applications....13
5.3 General assignment of the first and second channel status bits....13
5.4 Category code....13
6 User data....15
6.1 General....15
6.2 Applications....15
6.2.1 Professional use....15
6.2.2 Consumer use....15
7 Electrical requirement....15
7.1 Consumer application....15
7.1.1 General....15
7.1.2 Timing accuracy....15
7.1.3 Unbalanced line....16
7.2 Professional application....19
8 Optical requirements....19
8.1 Consumer application....19
8.1.1 ~~Optical specification~~ Configuration of optical connection....19
8.1.2 Optical connector....19
8.2 Professional applications....20
Annex A (informative) The use of the validity bit....21
Annex B (informative) Application documents and specifications....22
Annex C (informative) A relationship of the IEC 60958 series families....23
Annex D (informative) Transmission of CD data other than linear PCM audio....25
Annex E (informative) The IEC 60958 series conformant data format....26
Annex F (informative) Stream change....27
Annex G (informative) Characteristics of optical connection....29
Bibliography....31

Figure 1 – Sub-frame format (linear PCM application)....10
Figure 2 – Frame format....11

Figure 3 – Channel coding 11
Figure 4 – Preamble M (shown as 11100010) 12
Figure 5 – Simplified example of the configuration of the circuit (unbalanced) 16
Figure 6 – Rise and fall times 17
Figure 7 – Intrinsic jitter measurement filter 17
Figure 8 – Eye diagram 18
Figure 9 – Receiver jitter tolerance template 18
Figure 10 – Basic optical connection 19
Figure C.1 – Relationships of the IEC 60958 families 23
Figure F.1 – Audio sources and AV receiver model 27
Figure F.2 – Switching from linear PCM to non linear PCM 28
Figure F.3 – Switching from non linear PCM to linear PCM 28
Figure F.4 – Switching from non-linear PCM to non-linear PCM 28

Table 1 – Preamble coding 12
Table 2 – Channel status data format 14
Table B.1 – Application documents and specifications 22
Table C.1 – data_type values and application 24
Table G.1 – Characteristics of standard optical connection (optical interface) 29
Table G.2 – Characteristics of optical transmitter (optical interface) 29
Table G.3 – Characteristics of optical receiver (optical interface) 30
Table G.4 – Characteristics of fibre optic cable 30
Table G.5 – Optical power budget for the link with plastic fibre 30

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DIGITAL AUDIO INTERFACE –

Part 1: General

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). 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. 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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This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 60958-1:2008+AMD1:2014 CSV. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

IEC 60958-1 has been prepared by technical area 20: Analogue and digital audio, of IEC technical committee 100: Audio, video and multimedia systems and equipment. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2008, and Amendment 1:2014. This edition constitutes a technical revision.

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

a) The relevant part of IEC 60958-5 is supported.

The text of this International Standard is based on the following documents:

Draft	Report on voting
100/3544/CDV	100/3593/RVC

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

The language used for the development of this International Standard is English.

A list of all parts of the IEC 60958 series, under the general title *Digital audio interface*, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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~~INTRODUCTION to Amendment 1~~

~~The revision of IEC 60958-1:2008 has become necessary in order to revise Annexes B and C, and the Bibliography. Additional information for the use of the IEC 60958 conformant data format has also been included.~~

DIGITAL AUDIO INTERFACE –

Part 1: General

1 Scope

This part of IEC 60958 describes a serial, uni-directional, self-clocking interface for the interconnection of digital audio equipment for consumer and professional applications.

It provides the basic structure of the interface. Separate documents define items specific to particular applications.

The interface is primarily intended to carry monophonic or stereophonic programmes, encoded using linear PCM and with a resolution of up to 24 bits per sample.

When used for other purposes, the interface is able to carry audio data coded other than as linear PCM coded audio samples. Provision is also made to allow the interface to carry data related to computer software, multimedia technologies, or signals coded using non-linear PCM. The format specification for these applications is not part of this document.

The interface is intended for operation at audio sampling frequencies of 32 kHz and above. Auxiliary information is transmitted along with the programme.

2 Normative references

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 60268-11:1987, *Sound system equipment – Part 11: Application of connectors for the interconnection of sound system components*

~~IEC 60874-17, *Connectors for optical fibres and cables – Part 17: Sectional specification for fibre optic connector – Type F-05 (friction lock)*~~

IEC 60958-3, *Digital audio interface – Part 3: Consumer applications*

IEC 60958-4 (all parts), *Digital audio interface – Part 4: Professional applications*

IEC 60958-5, *Digital audio interface – Part 5: Consumer application enhancement*

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CONTENTS

FOREWORD....4
1 Scope....6
2 Normative references....6
3 Terms and definitions....6
4 Interface format....8
4.1 Structure of format....8
4.1.1 Sub-frame format....8
4.1.2 Frame format....9
4.2 Channel coding....10
4.3 Preambles....10
4.4 Validity bit....11
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5.1 General....11
5.2 Applications....11
5.3 General assignment of the first and second channel status bits....11
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6 User data....14
6.1 General....14
6.2 Applications....14
6.2.1 Professional use....14
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7 Electrical requirement....14
7.1 Consumer application....14
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7.1.3 Unbalanced line....15
7.2 Professional application....18
8 Optical requirements....18
8.1 Consumer application....18
8.1.1 Configuration of optical connection....18
8.1.2 Optical connector....18
8.2 Professional applications....19
Annex A (informative) The use of the validity bit....20
Annex B (informative) Application documents and specifications....21
Annex C (informative) A relationship of the IEC 60958 series families....22
Annex D (informative) Transmission of CD data other than linear PCM audio....24
Annex E (informative) The IEC 60958 series conformant data format....25
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Bibliography....30

Figure 1 – Sub-frame format (linear PCM application)....9
Figure 2 – Frame format....9
Figure 3 – Channel coding....10

Figure 4 – Preamble M (shown as 11100010) 11
Figure 5 – Simplified example of the configuration of the circuit (unbalanced) 15
Figure 6 – Rise and fall times 16
Figure 7 – Intrinsic jitter measurement filter 16
Figure 8 – Eye diagram 17
Figure 9 – Receiver jitter tolerance template 17
Figure 10 – Basic optical connection 18
Figure C.1 – Relationships of the IEC 60958 families 22
Figure F.1 – Audio sources and AV receiver model 26
Figure F.2 – Switching from linear PCM to non linear PCM 26
Figure F.3 – Switching from non linear PCM to linear PCM 27
Figure F.4 – Switching from non-linear PCM to non-linear PCM 27

Table 1 – Preamble coding 10
Table 2 – Channel status data format 13
Table B.1 – Application documents and specifications 21
Table C.1 – data_type values and application 23
Table G.1 – Characteristics of standard optical connection (optical interface) 28
Table G.2 – Characteristics of optical transmitter (optical interface) 28
Table G.3 – Characteristics of optical receiver (optical interface) 29
Table G.4 – Characteristics of fibre optic cable 29
Table G.5 – Optical power budget for the link with plastic fibre 29

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