

DIGITAALSE AUDIO LIIDES. OSA 4-4: ERIALASED
RAKENDUSED. FÜÜSILISED JA ELEKTRILISED (TA 4)

Digital audio interface - Part 4-4: Professional
applications - Physical and electrical parameters

EESTI STANDARDI EESSÕNA

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See Eesti standard EVS-EN 60958-4-4:2016 sisaldab Euroopa standardi EN 60958-4-4:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 60958-4-4:2016 consists of the English text of the European standard EN 60958-4-4:2016.
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English Version

Digital audio interface -
Part 4-4: Professional applications -
Physical and electrical parameters
(IEC 60958-4-4:2016)

Interface audionumérique -
Partie 4-4: Applications professionnelles -
Paramètres physiques et électriques
(IEC 60958-4-4:2016)

Digitalton-Schnittstelle -
Teil 4-4: Professioneller Gebrauch -
Physikalische und elektrische Eigenschaften
(IEC 60958-4-4:2016)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

The text of document 100/2454/CDV, future edition 1 of IEC 60958-4-4, prepared by Technical Area 4 "Digital system interfaces and protocols", of IEC/TC 100 "Audio, video and multimedia systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60958-4-4:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-01-28
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-04-28

This document, together with EN 60958-4-1:2016 and EN 60958-4-2:2016, supersedes EN 60958-4:2003.

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Endorsement notice

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60958	NOTE	Harmonized in EN 60958 series.
IEC 60958-3	NOTE	Harmonized as EN 60958-3.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60268-12	-	Sound system equipment - Part 12: Application of connectors for broadcast and similar use	EN 60268-12	-
IEC 60603-7	series	Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors	EN 60603-7	series
IEC 60958-1	2008	Digital audio interface -	EN 60958-1	2008
+ A1	2014	Part 1: General	+A1	2014
IEC 60958-4-1	-	Digital audio interface - Part 4-1: Professional applications - Audio content	EN 60958-4-1	-
IEC 60958-4-2	-	Digital audio interface - Part 4-2: Professional applications - Metadata and subcode	EN 60958-4-2	-
IEC 61169-8	-	Radio-frequency connectors - Part 8: Sectional specification - RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with bayonet lock - Characteristics impedance 50 ohms (type BNC)	EN 61169-8	-
ISO/IEC 11801	-	Information technology - Generic cabling for customer premises	-	-

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INTRODUCTION

The two-channel digital audio interface has been widely used in a variety of professional audio applications that have reached beyond the vision of the original standard. In particular, applications using increased sampling frequencies and alternative physical media.

Separating the standard into independently-maintainable parts allows, for example, additional transmission media to be introduced in the future by revising IEC 60958-4-4 without affecting the other parts of the IEC 60958-4 series. The parts comprise:

- Part 4-1: Audio content: defines the format for coding audio used for the audio content. It specifies the semantics of the audio data, including the "validity" flag. It also specifies the sampling frequency by reference to AES5.
- Part 4-2: Metadata and subcode: specifies the format for information, metadata, or subcode transmitted with the audio data: principally the channel status but also user data and the auxiliary bits. Implementors will note that the current implementation options ("Standard" and "Enhanced") both require that status data be implemented correctly in compliant equipment.
- Part 4-4: Physical and electrical parameters: specifies the physical signals that convey the bit stream specified in IEC 60958-1. The transport format is intended for use with shielded twisted-pair cable of conventional design over distances of up to 100 m at frame rates of up to 50 kHz. Longer cable lengths and higher frame rates may be used, but with a rapidly increasing requirement for care in cable selection and possible receiver equalization, or the use of active repeaters. Provision is made in this standard for adapting the balanced terminals to use 75 Ω coaxial cable. Transmission by fibre-optic cable is under consideration.