

STANDARDS AND INFORMATION DOCUMENTS

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WITHDRAWN
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**Proposed DRAFT for trial use and discussion -
AES standard for professional audio
interconnections -
Fibre-optic connectors, cables, and
characteristics
(Withdrawn 2018)**

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STANDARDS AND INFORMATION DOCUMENTS

PROPOSED DRAFT for trial use and discussion AES standard for professional audio interconnections — Fibre optic connectors, cables, and characteristics

This document was developed by a writing group of the Audio Engineering Society Standards Committee (AESSC) and has been prepared for discussion according to AES policies and procedures. It has been brought to the attention of International Electrotechnical Commission Technical Committee 100. Existing international standards relating to the subject of this document were used and referenced throughout its development.

AESSC wishes to provide opportunity for discussion and trial use before the document is presented as a call for comment leading to finalization of the standard. It is therefore initiating a process of public discussion via the Internet. The AESSC recognizes that a configuration standard such as this document will ultimately be tested in its application and that trial use will show need for additional changes, modifications and additions. As initially made available, the standard requires clarification of certain terms and references to international standards instead of US military standards.

This document is intended to change and will be prepared as a call for comment only after the working group is satisfied that the document is ready. Changes will be made and the document updated as they are agreed upon, based on the discussion, by a task group of SC-05-04. As editorial changes, particularly in the organization of the document, become necessary they will be made by the AESSC secretariat. The working group will be informed by reflector mail each time the document posting is updated. Participants in the discussion should be certain they are working with the latest posting as shown in the headers and footers of the document.

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PROPOSED DRAFT AES standard for professional audio interconnections — Fibre optic connectors, cables, and characteristics

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Abstract

This standard covers fibre-optic connectors and cables for professional use in audio applications not included in other AES standards.

An AES standard implies a consensus of those directly and materially affected by its scope and provisions and is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an AES standard does not in any respect preclude anyone, whether or not he or she has approved the document, from manufacturing, marketing, purchasing, or using products, processes, or procedures not in agreement with the standard. Prior to approval, all parties were provided opportunities to comment or object to any provision. Approval does not assume any liability to any patent owner, nor does it assume any obligation whatever to parties adopting the standards document. This document is subject to periodic review and users are cautioned to obtain the latest edition.

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Foreword

[This foreword is not a part of PROPOSED DRAFT AES standard for professional audio interconnections — Fibre optic connectors, cables, and characteristics, PROPOSED DRAFT AES32-TU]

This document was prepared for trial use under project AES-X11 by the SC-05-04 Working Group on Fibre Optic Connections of the AESSC Subcommittee on Interconnections under the chairmanship of R.G. Ajemian. The work began in the autonomous working group WG-14, in 1990, with the mission to study and report on possible fibre optic connectors and cables that would be appropriate for standardization in professional audio. At that time it was premature to standardize on these connections because of lack of knowledge and little usage of fibre optics. However, since then use of fibre optics has become common in major recording and broadcast studios. The group gathered information from the audio industry about its use of fibre optic connections. Some of the information shown in annex clause A.3 applies to usage conforming to Electronic Industries Association of Japan (EIAJ) RC-5720 in interfaces to ADAT optical equipment, and based upon testing conducted by Sharp Electronics, Silicon Graphics Computer Systems, and Alesis Corporation. This information is being used to standardize a single or a couple of fibre optic connectors and cables for professional audio. One type of modular digital multitrack recording format uses an interconnection standard based on the foundation defined by RCZ-6901 and RC-5720, but with a modified higher bit rate multichannel interface channel coding. This interconnect is known as the ADAT Optical interface ("ADAT Optical" is a Trade Mark of Alesis Corporation) interface. The ADAT optical interface has become frequently used for fibre optic interconnect of modular digital multitrack recording equipment in professional applications. For details on the channel coding of the ADAT optical interface see "Method and apparatus for providing a digital audio interface protocol," US Patent Number 5,297,181 March 22, 1994, however use of this patent is not required for compliance with this standard.

This standard is a guideline for optimum performance of fibre optic transmission in all areas of professional audio.

The writing group that drafted this standard had the following members: Ajemian, T. Ball, R. Cerny, M. Creamer, J. Curci, T. Hazelton, I. L. Joel, D. W. Moses, M. Poimbouef, J. Saarinen, J. M. Silva, and J. M. Woodgate.

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23 October 1997