SLOVENSKI STANDARD
SIST EN 60574-21:1999

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Audiovisual, video and television equipment and systems -- Part 21: Video tape leader and trailer for education and training applications (IEC 60574-21:1992)

Audiovisual, video and television equipment and systems -- Part 21: Video tape leader and trailer for education and training applications

Audiovisuelle, Video- und Fernsehgeräte und -anlagen -- Teil 21: Videoband-Vorspann und -Nachspann für Lehr- und Übungszwecke

Equipements et systèmes audiovisuels, vidéo et de télévision -- Partie 21: Amorce et fin de bande vidéo utilisée pour l'enseignement et la formation professionnelle

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ENGLISH VERSION

Audiovisual, video and television equipment and systems
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This European Standard was approved by CENELEC on 1993-12-08. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

FOREWORD

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 574-21:1992 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as European Standard.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as EN 60574-21 on 8 December 1993.

The following dates were fixed:

- latest date of publication of an identical national standard	(dop)	1995-03-15
- latest date of withdrawal of conflicting national standards	(dow)	1995-03-15

ENDORSEMENT NOTICE

The text of the International Standard IEC 574-21:1992 was approved by CENELEC as a European Standard without any modification.

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Audiovisual, video and television equipment and systems

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Video tape leader and trailer for education and training applications

Bureau Central de la Commission Electrotechnique Internationale 3, rue de Varembé Genève, Suisse

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

AUDIOVISUAL, VIDEO AND TELEVISION EQUIPMENT AND SYSTEMS

Part 21: Video tape leader and trailer for education and training applications

FOREWORD

1) The IEC (International Electrotechnical Commission) is a world-wide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

2) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.

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4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

International Standard IEC 574-21 has been prepared by IEC technical committee 84: Equipment and systems in the field of audio, video and audiovisual engineering.

The text of this standard is based on the following documents:

DIS	Report on Voting	Amendment to DIS	Report on Voting
84(CO)102	84(CO)120	84(CO)136	84(CO)144

Full information on the voting for the approval of this standard can be found in the Voting Reports indicated in the above table.

IEC 574 consists of the following parts, under the general title: Audiovisual, video and television equipment and systems:

Part 1: 1977, General.

Part 2: 1977, Explanation of general terms.

Part 3: 1983, Connectors for the interconnection of equipment in audiovisual systems.

Part 4: 1982, Preferred matching values for the interconnection of equipment in a system.

Part 5: 1980, Control, synchronization and address codes.

Part 7: 1987, Safe handling and operation of audiovisual equipment.

Part 8: 1979, Symbols and identification.

Part 10: 1983, Audio cassette systems.

Part 11: 1987, Video recording systems. Operating practices to facilitate browsing.

Part 13: 1982, Digital counter for audio cassette systems.

Part 14: 1983, Audio striped card system.

Part 15: 1984, Audio pages.

Part 16: 1987, Labelling for educational audiocassettes.

Part 18: 1987, Connectors for automatic slide projectors with built-in triacs for audiovisual application.

Part 20: 1988, Methods of measuring and reporting the performance of 16 mm sound film projectors.

AUDIOVISUAL, VIDEO AND TELEVISION EQUIPMENT AND SYSTEMS

Part 21: Video tape leader and trailer for education and training applications

1 Scope

1.1 This part of IEC 574 specifies the minimum requirements for recordings on the leaders and trailers of video recordings to assist users to adjust equipment for optimum performance prior to the start of recorded programme material.

It also specifies the audio and video information that precedes and follows the recorded programme material to ensure proper identification of the programme and to allow proper cue-up of and exit from the programme.

1.2 The signals recorded on the leaders and trailers are not intended as test signals for the measurement of the performance of a system.

2 Content

2.1 A diagram representing the signals and timings on the leader and trailer is given in figure 1.

2.2 The leader shall contain video and analogue or digital audio alignment signals for at least 30 s, and preferably for 60 s, to enable the display equipment to be set to the optimum levels. The audio alignment signals shall be of the same type (analogue or digital) as the audio programme signals.

2.3 The alignment section should be followed by programme identification for approximately 12 s, followed by 3 s of black burst and silence, prior to the start of the programme.

3 Specification of signals

3.1 *Leader for adjustments – Section A, figure 1*

3.1.1 Video signal: Colour bars should be recorded for at least 30 s. The composition of the bars signal should be the recommended form for the system to be recorded, and the tape format.

3.1.2 Audio (analogue or digital): A frequency of approximately 1 000 Hz may be used for the tone signal, which may be of the same duration as the bars specified in 3.1.1. The level should be at the reference level specified for the tape format which is generally set by the AGC circuit and indicated on the audio level meter of the video tape recorder.

Audio 1 and 2 should carry the same signal in phase, and for stereo the left-hand signal may be identified by signal interruption of approximately 0,25 s, every 3 s or by recording the left-hand signal only for at least 15 s followed by both left and right for 15 s.

NOTE - A frequency of approximately 400 Hz may be used for analogue audio signals.

3.2 *Programme identification – Section B, figure 1*

3.2.1 The video signal should contain details of the programme title or sub-title and may also include a count-down clock. The duration of this signal is nominally 12 s, but shall cut to black at 3 ± 0,1 s before the programme starts.

3.2.2 The audio channel may contain a statement of the programme title and/or a short audio signal of one-second intervals to provide a count-down. These signals shall finish as the video signal in 3.2.1 cuts to black 3 s before the programme starts.

3.3 *Black burst and silence – Section C, figure 1*

The start of this section is used as a programme switching cue point, and shall commence 3 s before programme. It is essential that true video black level and audio silence, (0000H in 16-bit 2's complement form for digital audio), are maintained during this period.

3.4 *Programme start – Section D, figure 1*

The programme shall commence 3 ± 0,1 s after the cue point in 3.3, but it is not mandatory for the sound and vision to start simultaneously.

4 Trailer – Section E, figure 1

After completion of the programme, black-burst signal and silence shall be recorded without interruption for more than 30 s. This section shall be defined as the trailer.