SLOVENSKI STANDARD
SIST EN 60933-5:1999

01-april-1999

Audio, video and audiovisual systems - Interconnections and matching values -- Part 5: Y/C connector for video systems - Electrical matching values and description of the connector (IEC 60933-5:1992)

Audio, video and audiovisual systems - Interconnections and matching values -- Part 5: Y/C connector for video systems - Electrical matching values and description of the connector

Audio-, Video- und audiovisuelle Anlagen - Verbindung und Anpassungswerte -- Teil 5: Y/C-Steckverbinder für Videosysteme - Elektrische Anpassungswerte und Beschreibung des Steckverbinders

Systèmes audio, vidéo et audiovisuels - Interconnexions et valeurs d'adaptation -- Partie 5: Connecteur Y/C pour les systèmes vidéo - Valeurs d'adaptation électrique et description du connecteur

Ta slovenski standard je istoveten z: EN 60933-5:1993

ICS:

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
33.160.40	Video sistemi	Video systems

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Descriptors: Television system, colour video system, video signal, transferring, interface, connector, requirements

ENGLISH VERSION

Audio, video and audiovisual systems Interconnections and matching values Part 5: Y/C connector for video systems Electrical matching values and description of the connector (IEC 933-5:1992)

Systèmes audio, vidéo et audiovisuels - Interconnexions et valeurs d'adaptation Partie 5: Connecteur Y/C pour les systèmes vidéo - Valeurs d'adaptation électrique et description du connecteur (CEI 933-5:1992)

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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 text of document 84(CO)131, as prepared by IEC Technical Committee N° 84, Equipment and systems in the field of audio, video and audiovisual engineering, was submitted to the IEC-CENELEC parallel vote in November 1991.

The reference document was approved by CENELEC as EN 60933-5 on 9 March 1993.

The following dates were fixed:

- latest date of publication of an identical national standard	(dop)	1994-03-01
- latest date of withdrawal of conflicting national standards	(dow)	1994-03-01

For products which have complied with the relevant national standard before 1994-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1999-03-01.

ENDORSEMENT NOTICE

The text of the International Standard IEC 933-5:1992 was approved by CENELEC as a European Standard without any modification.

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Systèmes audio, vidéo et audiovisuels – Interconnexions et valeurs d'adaptation

Partie 5:
Connecteur Y/C pour les systèmes vidéo – Valeurs d'adaptation électrique et description du connecteur

Audio, video and audiovisual systems – Interconnections and matching values

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

AUDIO, VIDEO AND AUDIOVISUAL SYSTEMS – INTERCONNECTIONS AND MATCHING VALUES

Part 5: Y/C connector for video systems – Electrical matching values and description of the connector

FOREWORD

1) 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.

2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.

3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

This standard has been prepared by IEC Technical Committee No. 84: Equipment and systems in the field of audio, video and audiovisual engineering.

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

Six Months' Rule	Report on Voting
84(CO)131	84(CO)150

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

AUDIO, VIDEO AND AUDIOVISUAL SYSTEMS – INTERCONNECTIONS AND MATCHING VALUES

Part 5: Y/C connector for video systems – Electrical matching values and description of the connector

1 Scope

This International Standard applies to the transfer of video signals between two pieces of equipment in an NTSC, PAL or SECAM high-resolution colour video system, in the form of a Y-signal, consisting of luminance + blanking + sync, and a C-signal, the same as the modulated chrominance signal of the composite video signal. It specifies the signal levels and impedances at the interface and the type of connector to be used.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitutes provisions of this International Standard. At the time of publication, the edition indicated was valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

CCIR Report 624-3, 1986: *Characteristics of television systems - Recommendations and reports of the CCIR,* 1986, Vol. XI-1.

3 Requirements

3.1 *Contact designation*

The contact designation is given in figure 1. The contact numbers are given as seen on the mating face of the pin connector.

3.2 The application and designation of the contacts shall be as given in table 1.

Table 1

Contact number	Contact designation	Matching values
1	Return for Y signal	-
2	Return for C signal	-
3	Y input or output signal	- Input or output voltge: 1,0 V_{pp} ± 3 dB (PAL/SECAM/NTSC) - Rated input impedance: 75 Ω
4	C input signal	- Input voltage: standard chrominance level ± 3 dB (PAL/SECAM/NTSC) for 1,0 V_{pp} of Y input signal level (see CCIR Report 624-3) - Rated input impedance: 75 Ω
	C output signal	- Output voltage: standard chrominance level ± 3 dB (PAL/SECAM/NTSC) for 1,0 V_{pp} of Y output signal level (see CCIR Report 624-3) - Rated output impedance: 75 Ω
5	Screen of plug	No connection or connected to cable screen Screen not to be connected to Y or C return
	Screen of socket	No connection or connected to chassis Screen not to be connected to Y or C return

NOTES

1 The synchronization polarity shall be negative.

2 For PAL

a) The time coincidence of the Y and C signals shall be measured using a standard colour bar signal at the transition of green and magenta, where the C signal makes a zero crossing. See figure 2.

b) The C signal shall be time coincident with the Y signal within 100 ns. This shall be measured at the output of the source equipment.

c) The amplitude of the green and magenta chroma signals shall be equal within 10 %.

3.3 *Electrical and mechanical requirements of the connector*

The electrical and mechanical requirements shall be in accordance with a future IEC standard (under consideration).

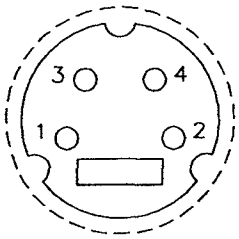

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Figure 1 - Contact designation

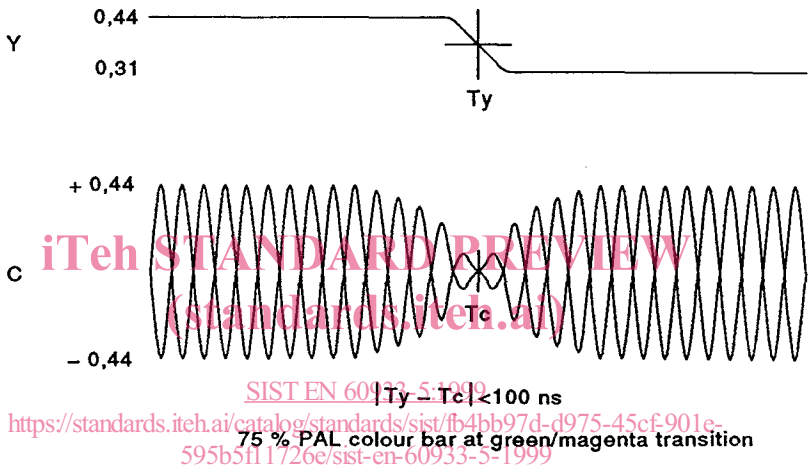

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Figure 2 - Chrominance-luminance time coincidence