
Kabelska omrežja za televizijske in zvokovne signale ter interaktivne storitve - 3-1. del: Metode merjenja nelinearnosti popolnoma digitalnega bremena kanala s signali DVB-C

Cable networks for television signals, sound signals and interactive services -- Part 3-1: Methods of measurement of non-linearity for full digital channel load with DVB-C signals

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Réseaux de distribution par câbles pour signaux de télévision, signaux de radiodiffusion sonore et services interactifs -- Partie 3-1: Méthodes de mesure de la non-linéarité pour une charge faite seulement de porteurs en modulation numérique avec des signaux DVB-C

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EUROPEAN STANDARD
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August 2012

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English version

**Cable networks for television signals, sound signals and interactive services -
Part 3-1: Methods of measurement of non-linearity for full digital channel load with DVB-C signals
(IEC 60728-3-1:2012)**

Réseaux de distribution par câbles pour signaux de télévision, signaux de radiodiffusion sonore et services interactifs -

Partie 3-1: Méthodes de mesure de la non-linéarité pour une charge faite seulement de porteuses en modulation numérique avec des signaux DVB-C
(CEI 60728-3-1:2012)

Kabelnetze für Fernsehsignale, Tonsignale und interaktive Dienste -
Teil 3-1: Messverfahren für die Nichtlinearität bei voller digitaler Kanallast mit DVB-C-Signalen
(IEC 60728-3-1:2012)

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 100/1969/FDIS, future edition 1 of IEC 60728-3-1, prepared by technical area 5, "Cable networks for television signals, sound signals and interactive services", 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 60728-3-1:2012.

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) 2013-05-10
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-08-10

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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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60728-3	-	Cable networks for television signals, sound signals and interactive services - Part 3: Active wideband equipment for cable networks	EN 60728-3	-
ISO/IEC 13818-1	2007	Information technology - Generic coding of moving pictures and associated audio information: Systems	-	-

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NORME INTERNATIONALE

**Cable networks for television signals, sound signals and interactive services –
Part 3-1: Active wideband equipment for cable networks – Methods of
measurement of non-linearity for full digital channel load with DVB-C signals**

**Réseaux de distribution par câbles pour signaux de télévision, signaux de
radiodiffusion sonore et services interactifs –
Partie 3-1: Matériel actif à large bande pour réseaux de distribution par câbles –
Méthodes de mesure de la non-linéarité pour une charge tout numérique de
signaux DVB-C**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CABLE NETWORKS FOR TELEVISION SIGNALS,
SOUND SIGNALS AND INTERACTIVE SERVICES –**
**Part 3-1: Active wideband equipment for cable networks –
Methods of measurement of non-linearity for
full digital channel load with DVB-C signals**

FOREWORD

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International Standard IEC 60728-3-1 has been prepared by technical area 5: Cable networks for television signals, sound signals and interactive services, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

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

FDIS	Report on voting
100/1969/FDIS	100/2006/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The list of all parts of the IEC 60728 series, under the general title, *Cable networks for television signals, sound signals and interactive services*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

Standards of the IEC 60728 series deal with cable networks including equipment and associated methods of measurement for headend reception, processing and distribution of television signals, sound signals and their associated data signals and for processing, interfacing and transmitting all kinds of signals for interactive services using all applicable transmission media.

This includes

- CATV¹-networks,
- MATV-networks and SMATV-networks,
- individual receiving networks,

and all kinds of equipment, systems and installations installed in such networks.

For active equipment with balanced RF signal ports this standard applies only to those ports which carry RF broadband signals for services as described in the scope of this standard.

The extent of this standardization work is from the antennas and/or special signal source inputs to the headend or other interface points to the network up to the terminal input.

The standardization of any user terminals (i.e., tuners, receivers, decoders, multimedia terminals, etc.) as well as of any coaxial, balanced and optical cables and accessories thereof is excluded.

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¹ This word encompasses the HFC networks used nowadays to provide telecommunications services, voice, data, audio and video both broadcast and narrowcast.