

Televisiooni-, heli- ja interaktiivse multimeedia signaalide kaabeljaotussüsteemid. Osa 8: Võrkude elektromagnetiline ühilduvus

Cable networks for television signals, sound signals and interactive services - Part 8: Electromagnetic compatibility for networks

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 50083-8:2007 sisaldab Euroopa standardi EN 50083-8:2002 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 05.02.2003 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 24.05.2002.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 50083-8:2007 consists of the English text of the European standard EN 50083-8:2002.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 05.02.2003 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 24.05.2002.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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English version

**Cable networks for television signals, sound signals
and interactive services
Part 8: Electromagnetic compatibility for networks**

Réseaux de distribution par câbles
pour signaux de télévision, signaux de
radiodiffusion sonore et services
interactifs
Partie 8: Compatibilité électromagnétique
des réseaux

Kabelnetze für Fernsehsignale,
Tonsignale und interaktive Dienste
Teil 8: Elektromagnetische Verträglichkeit
von Kabelnetzen

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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.

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CENELEC

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

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Foreword

This European Standard was prepared by CENELEC Technical Committee TC 209, "Cable networks for television signals, sound signals and interactive services" on the basis of EN 50083-8:2000 and the first amendment to EN 50083-8.

The text of this first amendment was submitted to the Unique Acceptance Procedure and was approved by CENELEC on 2001-12-01 to be published as part of a second edition of EN 50083-8.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2002-12-01
 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2004-12-01
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1 Scope

1.1 General

Standards of EN 50083 series deal with cable networks for television signals, sound signals and interactive services including equipment, systems and installations

- for headend-reception, processing and distribution of sound and television signals and their associated data signals and
- for processing, interfacing and transmitting all kinds of signals for interactive services

using all applicable transmission media.

All kinds of networks like

- CATV-networks
- MATV- and SMATV-networks
- individual receiving networks

and all kinds of equipment, systems and installations installed in such networks, are within this scope

The extent of this standardisation work is from the antennas, special signal source inputs to the headend or other interface points to the network up to the system outlet or the terminal input, where no system outlet exists.

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

1.2 Specific scope of this part 8

This standard applies to the radiation characteristics and immunity to electromagnetic disturbance of cable networks for television signals, sound signals and interactive services and covers the frequency range 0,15 MHz to 3,0 GHz.

This standard specifies EMC performance requirements and lays down the methods of measurement.

Cable networks beyond the system outlets (e.g. the receiver lead, in simplest terms) which begin at the system outlet and end at the subscriber's terminal equipment shall comply with these recommendations provided that no other specific provisions apply.

Requirements for the electromagnetic compatibility of receiver leads are laid down in EN 60966-2-4, EN 60966-2-5 and EN 60966-2-6.

To minimise the risk of interference to other radio services caused by possible radiation from a cable network and to limit the possible penetration of external signals which may interfere with the operation of a network, it is necessary not only to use equipment which satisfies the requirements of EN 50083-2 regarding limits of radiation and of immunity to external fields but also to ensure the integrity of all cable connections on each item of active or passive cable network equipment.

Cable networks employing coaxial cables can be a source of interference to a wide range of services that utilise the radio frequency spectrum. These include not only the emergency services, safety of life, broadcasting, aeronautical and radio navigation services but also land mobile, amateur and cellular radio services.

As existing and planned radio services need to be protected, radiation limits specified for cable networks should comply with.

Additional protection for certain services may be required by national regulations.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 50083		Cable networks for television signals, sound signals and interactive services
EN 50083-2	2001	Part 2: Electromagnetic compatibility for equipment
EN 50083-3	2002	Part 3: Active wideband equipment for coaxial cable networks
EN 50083-4	1998	Part 4: Passive wideband equipment for coaxial cable networks
EN 50083-5	2000	Part 5: Headend equipment (to be published)
EN 50083-6	1997	Part 6: Optical equipment
EN 50083-7 + A1	1996 2000	Part 7: System performance
EN 50117	Series	Coaxial cables used in cable networks
EN 60966-2-4	1997	Radio frequency and coaxial cable assemblies - Part 2-4: Detail specification for cable assemblies for radio and TV receivers - Frequency range 0 to 3 000 MHz, IEC 60169-2 connectors
EN 60966-2-5	1998	Radio frequency and coaxial cable assemblies - Part 2-5: Detail specification for cable assemblies for radio and TV receivers - Frequency range 0 to 1 000 MHz, IEC 60169-2 connectors
EN 60966-2-6	1998	Radio frequency and coaxial cable assemblies - Part 2-6: : Detail specification for cable assemblies for radio and TV receivers - Frequency range 0 to 3 000 MHz, IEC 60169-24 connectors
IEC 60050(161)		International Electrotechnical Vocabulary Chapter 161: Electromagnetic compatibility.
CISPR 16-1	1993	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1: Radio disturbance and immunity measuring apparatus