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S.R. CLC/TR 50083-2-1:2014

# Cable networks for television signals, sound signals and interactive services - Part 2-1: Electromagnetic compatibility measurements

**S.R. CLC/TR 50083-2-1:2014**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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**Cable networks for television signals, sound signals and  
interactive services - Part 2-1: Electromagnetic compatibility  
measurements**

To be completed

Kabelnetze für Fernsehsignale, Tonsignale und interaktive  
Dienste - Teil 2-1: Messungen der elektromagnetischen  
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## **Foreword**

This document (CLC/TR 50083-2-1:2014) has been prepared by CLC/TC 209 "Cable networks for television signals, sound signals and interactive services".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

## 1 Scope

### 1.1 General

Standards and deliverables of EN 60728 series deal with cable networks including equipment and associated methods of measurement for headend reception, processing and distribution of television and sound signals and for processing, interfacing and transmitting all kinds of data signals for interactive services using all applicable transmission media. These signals are typically transmitted in networks by frequency-multiplexing techniques.

This includes for instance

- regional and local broadband cable networks,
- extended satellite and terrestrial television distribution systems,
- individual satellite and terrestrial television receiving systems,

and all kinds of equipment, systems and installations used in such cable networks, distribution and receiving systems.

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 of the customer premises equipment.

The standardization work will consider coexistence with users of the RF spectrum in wired and wireless transmission systems.

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.

### 1.2 Specific scope of CLC/TR 50083-2-1

This Technical Report describes EMC measurements using specific measuring apparatus or alternative methods of measurement (e.g. spectrum analyser) and applies to the radiation characteristics of EM-active equipment (active and passive equipment) for the reception, processing and distribution of television, sound and interactive multimedia signals as dealt with in the following parts of EN 50083 or EN 60728 series:

- EN 60728-3 "Active wideband equipment for coaxial cable networks";
- EN 60728-4 "Passive wideband equipment for coaxial cable networks";
- EN 60728-5 "Headend equipment";
- EN 60728-6 "Optical equipment";

and covers the following frequency ranges:

- 150 kHz to 30 MHz;
- 30 MHz to 1 GHz.

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