

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Cable networks for television signals, sound signals and interactive services –
Part 11: Safety**

**Réseaux de distribution par câbles pour signaux de télévision, signaux de
radiodiffusion sonore et services interactifs –
Partie 11: Sécurité**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CABLE NETWORKS FOR TELEVISION SIGNALS,
SOUND SIGNALS AND INTERACTIVE SERVICES –****Part 11: Safety**

FOREWORD

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International Standard IEC 60728-11 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.

This fourth edition cancels and replaces the third edition published in 2010. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition.

- Correction of minimum cross-section of bonding conductor in Figure 6, Figure 14 and Figure 17.
- Verbal modification of 11.3.1.2.

- Creation of new symbols for “overvoltage protective device – (OPD)” and for “coaxial overvoltage protective device – (COPD)”.
- Introduction of new OPD symbol to 3.2, Figure 3 and Figure 6.
- Introduction of new COPD symbol to 3.2 and Figure 19.
- In 3.1 replacement of terms CATV, MATV and SMATV by new terms and definitions due to changes in technology and use of cable networks.
- New Figures 18a to 18d.
- Deletion of Figure 19.
- Extension for remote feeding voltage on subscriber feeder.
- Adaption to Edition 2.0 of the IEC 62305 series.
- Deletion of informative Annex C and normative reference to the simplified software for the calculation of risk due to lightning (Annex J of IEC 62305-2:2006¹).
- New subclause 10.2.6 Fully-isolated system outlet provided by means of a FTTH system.

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

FDIS	Report on voting
100/2592/FDIS	100/2636/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.

The list of all the 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.

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

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The contents of the corrigendum of July 2016 have been included in this copy.

¹ IEC 62305-2:2006, *Protection against lightning – Part 2: Risk management*

INTRODUCTION

Standards and other deliverables of the IEC 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 networks and 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.

Withhold