

SLOVENSKI STANDARD SIST EN 60728-6:2011

01-september-2011

Nadomešča:

SIST EN 60728-6:2004

Kabelska omrežja za televizijske signale, zvokovne signale in interaktivne storitve - 6. del: Optična oprema (IEC 60728-6:2011)

Cable networks for television signals, sound signals and interactive services - Part 6: Optical equipment (IEC 60728-6:2011)

Kabelnetze für Fernsensignale und interaktive Dienste / Teil 6: Optische Geräte (IEC 60728-6:2011) (standards.iteh.ai)

Réseaux de distribution par câbles pour signaux de télévision, signaux de radiodiffusion sonore et services interactifs Partie 6: Matériels optiques (CE#60728-6:2011)

Ta slovenski standard je istoveten z: EN 60728-6:2011

ICS:

33.060.40 Kabelski razdelilni sistemi Cabled distribution systems

SIST EN 60728-6:2011 en

SIST EN 60728-6:2011

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<u>SIST EN 60728-6:2011</u> https://standards.iteh.ai/catalog/standards/sist/28e18c8b-3074-4f54-b67c-ea94f4e99293/sist-en-60728-6-2011

EUROPEAN STANDARD

EN 60728-6

NORME EUROPÉENNE EUROPÄISCHE NORM

June 2011

ICS 33.060.40; 33.160.99

Supersedes EN 60728-6:2003

English version

Cable networks for television signals, sound signals and interactive services -

Part 6: Optical equipment

(IEC 60728-6:2011)

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

Partie 6: Matériels optiques

(CEI 60728-6:2011)

Kabelnetze für Fernsehsignale, Tonsignale und interaktive Dienste -Teil 6: Optische Geräte (IEC 60728-6:2011)

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ea94f4e99293/sist-en-60728-6-2011

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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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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 100/1654/CDV, future edition 3 of IEC 60728-6, 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 was approved by CENELEC as EN 60728-6 on 2011-05-16.

This European Standard supersedes EN 60728-6:2003.

EN 60728-6:2011 includes the following significant technical changes with respect to EN 60728-6:2003.

- The normative references were updated.
- The methods of measurement for optical power and return loss were substituted by references to other standards.
- The method of measurement for polarization dependent loss was deleted.
- A method of measurement for carrier-to-crosstalk ratio (CCR) was added.
- The methods of measurement for CSO and CTB of optical amplifiers were substituted by a
 method of measurement for microscopic gain tilt of optical amplifiers. This parameter can
 be used for calculating the second order distortion of optical amplifiers according to the
 method described in the new Annex B.NDARD PREVIEW
- New classes for optical transmitters and receivers have been defined.

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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) 2012-02-16

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2014-05-16

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60728-6:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60068 series NOTE Harmonized in EN 60068 series (not modified).

IEC 60068-2-48 NOTE Harmonized as EN 60068-2-48.

IEC 60169-2 NOTE Harmonized as EN 60169-2.

IEC 60728-5 NOTE Harmonized as EN 60728-5.

IEC 60793-2-50	NOTE	Harmonized as EN 60793-2-50.
IEC 60825-2	NOTE	Harmonized as EN 60825-2.
IEC 61280-2-2	NOTE	Harmonized as EN 61280-2-2.
IEC 61280-4-2	NOTE	Harmonized as EN 61280-4-2.
IEC 61281-1:1999	NOTE	Harmonized as EN 61281-1:1999 (not modified).
IEC 61290-1-1	NOTE	Harmonized as EN 61290-1-1.
IEC 61290-1-2	NOTE	Harmonized as EN 61290-1-2.
IEC 61290-3-1	NOTE	Harmonized as EN 61290-3-1.
IEC 61290-6-1	NOTE	Harmonized as EN 61290-6-1.
IEC 61291-4	NOTE	Harmonized as EN 61291-4.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. 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>	EN/HD	<u>Year</u>
IEC 60068-1 + corr. October	1988 1988	Environmental testing - Part 1: General and guidance	EN 60068-1 ¹⁾	1994
IEC 60068-2-1	-	Environmental testing - Part 2-1: Tests - Test A: Cold	EN 60068-2-1	-
IEC 60068-2-2	-	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	-
IEC 60068-2-6	2007	environmental testing RD PREVIE Part 2-6; Tests - Test Fc: Vibration (sinusoidal) ndards.iteh.ai)	EN 60068-2-6	2008
IEC 60068-2-14	- https://sta	Environmental testing - Part 2-14: Tests ET est N: Charlee of untemperature alog/standards/sist/28e18c8b-3074-4f5	EN 60068-2-14 4-b67c-	-
IEC 60068-2-27	-	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	EN 60068-2-27	-
IEC 60068-2-30	-	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	-
IEC 60068-2-31	-	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	EN 60068-2-31	-
IEC 60068-2-40	-	Environmental testing - Part 2-40: Tests. Test Z/AM: Combined cold/low air pressure tests	EN 60068-2-40	-
IEC 60169-24	-	Radio-frequency connectors - Part 24: Radio-frequency coaxial connectors with screw coupling, typically for use in 75 ohm cable distribution systems (Type F)	EN 60169-24	-
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	; -	-
IEC 60728-1	-	Cable networks for television signals, sound signals and interactive services - Part 1: System performance of forward paths	EN 60728-1	-

¹⁾ EN 60068-1 includes A1 to IEC 60068-1 + corr. October.

Publication IEC 60728-2	<u>Year</u> -	Title Cabled distribution systems for television and sound signals - Part 2: Electromagnetic compatibility for equipment	<u>EN/HD</u> -	<u>Year</u> -
IEC 60728-3	2010	Cable networks for television signals, sound signals and interactive services - Part 3: Active wideband equipment for cable networks	EN 60728-3	2011
IEC 60728-11	-	Cable networks for television signals, sound signals and interactive services - Part 11: Safety	EN 60728-11	-
IEC 60728-13 + corr. August	2010 2010	Cable networks for television signals, sound signals and interactive services - Part 13: Optical systems for broadcast signal transmissions	EN 60728-13	2010
IEC 60793-2-50	2008	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN 60793-2-50	2008
IEC 60825-1	-	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	-
IEC 61280-1-1	iTo	Fibre optic communication subsystem basic test procedures - A R PREVIE Part 1-1: Test procedures for general communication subsystems a Transmitter output optical power measurement for single-mode optical fibre cable	EN 61280-1-1	-
IEC 61280-1-3	https://sta	SIST EN 60728-6:2011	1 0070	-
IEC/TR 61282-4	-	Fibre optic communication system design guides - Part 4: Accomodation and utilization of non- linear effects	-	-
IEC 61290-1	Series	Optical amplifiers - Test methods - Part 1: Optical power and gain parameters	EN 61290-1	Series
IEC 61290-1-3	-	Optical amplifiers - Test methods - Part 1-3: Power and gain parameters - Optica power meter method	EN 61290-1-3 I	-
IEC 61290-3-2	2003	Optical amplifiers - Part 3-2: Test methods for noise figure parameters - Electrical spectrum analyzer method	EN 61290-3-2 ²⁾	2003
IEC 61290-5	Series	Optical amplifiers - Test methods - Part 5: Reflectance	EN 61290-5	Series
IEC 61290-6	Series	Optical fibre amplifiers - Basic specification - Part 6: Test methods for pump leakage parameters	EN 61290-6	Series

 $\frac{}{}^{2)}$ EN 61290-3-2 is superseded by EN 61290-3-2:2008, which is based on IEC 61290-3-2:2008.

Publication IEC 61290-11	<u>Year</u> Series	<u>Title</u> Optical amplifier - Test methods - Part 11: Polarization mode dispersion parameter	<u>EN/HD</u> EN 61290-11	<u>Year</u> Series
IEC 61291-1	-	Optical amplifiers - Part 1: Generic specification	EN 61291-1	-
IEC 61291-5-2	-	Optical amplifiers - Part 5-2: Qualification specifications - Reliability qualification for optical fibre amplifiers	EN 61291-5-2	-
IEC 61300-3-6	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss	EN 61300-3-6	-
IEC 61754-4	-	Fibre optic connector interfaces - Part 4: Type SC connector family	EN 61754-4	-
IEC/TR 61931	1998	Fibre optic - Terminology	-	-
IEC 80416	Series	Basic principles for graphical symbols for use on equipment	EN 80416	Series
IEC 60417	database	Graphical symbols for use on equipment	-	-
IEC 60617	database	Graphical symbols for diagrams	-	-

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IEC 60728-6

Edition 3.0 2011-04

INTERNATIONAL STANDARD

Cable networks for television signals, sound signals and interactive services – Part 6: Optical equipment (standards.iteh.ai)

SIST EN 60728-6:2011 https://standards.iteh.ai/catalog/standards/sist/28e18c8b-3074-4f54-b67c-ea94f4e99293/sist-en-60728-6-2011

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRICE CODE XB

ICS 33.060.40; 33.160.99 ISBN 978-2-88912-427-5

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CABLE NETWORKS FOR TELEVISION SIGNALS, SOUND SIGNALS AND INTERACTIVE SERVICES –

Part 6: Optical equipment

FOREWORD

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International Standard IEC 60728-6 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 third edition cancels and replaces the second edition published in 2003 of which it constitutes a technical revision.

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

- The normative references were updated.
- The methods of measurement for optical power and return loss were substituted by references to other standards.
- The method of measurement for polarization dependent loss was deleted.

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- A method of measurement for carrier-to-crosstalk ratio (CCR) was added.
- The methods of measurement for CSO and CTB of optical amplifiers were substituted by a
 method of measurement for microscopic gain tilt of optical amplifiers. This parameter can
 be used for calculating the second order distortion of optical amplifiers according to the
 method described in the new Annex B.
- New classes for optical transmitters and receivers have been defined.

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

CDV	Report on voting		
100/1654/CDV	100/1789/RVC		

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 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.

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 FVIEW

reconfirmed,

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withdrawn,

amended.

replaced by a revised edition, or

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A bilingual version of this publication may be issued at a later date.