



# SLOVENSKI STANDARD

## SIST EN 62496-4:2011

01-maj-2011

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**Plošče z optičnimi vezji - 4. del: Vmesniški standardi - Splošno in navodila (IEC 62496-4:2011)**

Optical circuit boards - Part 4: Interface standards - General and guidance (IEC 62496-4:2011)

Optische Leiterplatten - Teil 4: Schnittstellennormen - Allgemeines und Leitfaden (IEC 62496-4:2011)

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Cartes à circuits optiques - Partie 4: Normes d'interface - Généralités et lignes directrices (CEI 62496-4:2011)

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**Ta slovenski standard je istoveten z: EN 62496-4:2011**

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**ICS:**

31.180	Tiskana vezja (TIV) in tiskane plošče	Printed circuits and boards
33.180.01	Sistemi z optičnimi vlakni na splošno	Fibre optic systems in general

**SIST EN 62496-4:2011**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 62496-4**

March 2011

ICS 33.180.01

English version

**Optical circuit boards -  
Part 4: Interface standards -  
General and guidance  
(IEC 62496-4:2011)**

Cartes à circuits optiques -  
Partie 4: Normes d'interface -  
Généralités et lignes directrices  
(CEI 62496-4:2011)

Optische Leiterplatten -  
Teil 4: Schnittstellennormen -  
Allgemeines und Leitfaden  
(IEC 62496-4:2011)

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This European Standard was approved by CENELEC on 2011-03-02. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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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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 86/379/FDIS, future edition 1 of IEC 62496-4, prepared by IEC TC 86, Fibre optics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62496-4 on 2011-03-02.

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

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) 2011-12-02
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2014-03-02

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 62496-4:2011 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 60027 series	NOTE	Harmonized in EN 60027 series (not modified).
IEC 60695-11-5	NOTE	Harmonized as EN 60695-11-5.
IEC 60825-1	NOTE	Harmonized as EN 60825-1.
IEC 60825-2	NOTE	Harmonized as EN 60825-2.
IEC 61300 series	NOTE	Harmonized in EN 61300 series (not modified).
ISO 286-1	NOTE	Harmonized as EN ISO 286-1.
ISO 1101	NOTE	Harmonized as EN ISO 1101.
ISO 7083	NOTE	Harmonized as EN ISO 7083.

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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>	<u>EN/HD</u>	<u>Year</u>
IEC 60793-1-45 (mod)	-	Optical fibres - Part 1-45: Measurement methods and test procedures - Mode field diameter	EN 60793-1-45	-

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IEC 62496-4

Edition 1.0 2011-01

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Optical circuit boards –**  
**Part 4: Interface standards – General and guidance**

**Cartes à circuits optiques –**  
**Partie 4: Normes d'interface – Généralités et lignes directrices**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

PRICE CODE  
CODE PRIX

U

ICS 33.180.01

ISBN 978-2-88912-317-9

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**OPTICAL CIRCUIT BOARDS –****Part 4: Interface standards –  
General and guidance**

## FOREWORD

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International Standard IEC 62496-1 has been prepared by IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86/379/FDIS	86/386/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.

A list of all the parts in the IEC 62496 series, under the general title *Optical circuit boards*, 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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## OPTICAL CIRCUIT BOARDS –

### Part 4: Interface standards – General and guidance

#### 1 Scope

This part of IEC 62496 covers general information on the subject of Optical Circuit Board (OCB) interfaces. It includes normative references, definitions and rules for creating and interpreting the standard drawings.

#### 2 Normative references

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.

IEC 60793-1-45, *Optical fibres – Part 1-45: Measurement methods and test procedures – Mode field diameter*

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#### 3 Terms and definitions (standards.iteh.ai)

For the purposes of this document, the following terms and definitions apply.

##### 3.1 General definitions

###### 3.1.1

###### OCB interface

sizes and relative locations for the features comprising the OCB. It also includes the location of the coordinates of the alignment mark

###### 3.1.2

###### OCB body

portion of an OCB where optical fibres/waveguides are fixed/fabricated to form an optical routing pattern. The typical shape of an OCB body is rectangular

###### 3.1.3

###### shape of the OCB body

outline of the OCB body which consists of a straight line and a curved line

NOTE The straight line is defined by coordinates of start point and end point, and the curved line is defined by the coordinates of the start and the end points of the curve and by radius of curvature.

###### 3.1.4

###### OCB tail

###### (OCB leg)

projection from the OCB body for interconnection with optical fibre cables and/or optical components

###### 3.1.5

###### length of the OCB tail

distance between the edge of an OCB body and the end of the OCB tail protruding from the edge of the OCB body