



**NSAI**  
Standards

Irish Standard  
I.S. EN 62496-3-1:2010

Optical circuit boards - Performance standard -- Part 3-1: Flexible optical circuit boards using unconnectorized optical glass fibres (IEC 62496-3-1:2009 (EQV))

## I.S. EN 62496-3-1:2010

*Incorporating amendments/corrigenda issued since publication:*

**The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:**

**I.S. xxx:** Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

**S.R. xxx:** Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

**SWiFT xxx:** A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

|   |   |   |
|---|---|---|
| <i>This document replaces:</i>  | <i>This document is based on:</i><br>EN 62496-3-1:2010                                | <i>Published:</i><br>7 May, 2010  |
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English version

**Optical circuit boards -  
Performance standard -  
Part 3-1: Flexible optical circuit boards using unconnectorized optical  
glass fibres  
(IEC 62496-3-1:2009)**

Cartes à circuits optiques -  
Norme de performance -  
Partie 3-1 : Cartes à circuits optiques  
souples utilisant des fibres optiques  
en silice non connectorisées  
(CEI 62496-3-1:2009)

Optische Leiterplatten -  
Betriebsverhalten -  
Teil 3-1: Flexible optische Leiterplatten  
mit nicht steckbaren Lichtwellenleitern  
für die Kategorie C -  
Kontrollierte Umgebung  
(IEC 62496-3-1:2009)

This European Standard was approved by CENELEC on 2010-05-01. 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.

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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

**CENELEC**

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

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## Foreword

The text of document 86/319/CDV, future edition 1 of IEC 62496-3-1, prepared by IEC TC 86, Fibre optics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62496-3-1 on 2010-05-01.

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) 2011-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2013-05-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 62496-3-1:2009 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 60793-1-1  | NOTE | Harmonized as EN 60793-1-1.  |
| IEC 60793-2    | NOTE | Harmonized as EN 60793-2.    |
| IEC 60793-2-10 | NOTE | Harmonized as EN 60793-2-10. |
| IEC 60793-2-20 | NOTE | Harmonized as EN 60793-2-20. |
| IEC 60793-2-50 | NOTE | Harmonized as EN 60793-2-50. |
| IEC 60793-2-60 | NOTE | Harmonized as EN 60793-2-60. |
| IEC 61753-1    | NOTE | Harmonized as EN 61753-1.    |
| IEC 62496-1    | NOTE | Harmonized as EN 62496-1.    |

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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 61300-2-18     | -           | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance     | EN 61300-2-18 | -           |
| IEC 61300-2-19     | -           | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state)                  | EN 61300-2-19 | -           |
| IEC 61300-2-22     | -           | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature                     | EN 61300-2-22 | -           |
| IEC 61300-3-1      | -           | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination | EN 61300-3-1  | -           |
| IEC 61300-3-4      | -           | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements - Attenuation        | EN 61300-3-4  | -           |
| 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  | -           |
| ISO 5999           | -           | Flexible cellular polymeric materials - Polyurethane foam for load-bearing applications excluding carpet underlay - Specification                                 | -             | -           |

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