



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60793-1-49:2006

ICS 33.180.10

**OPTICAL FIBRES -- PART 1-49:
MEASUREMENT METHODS AND TEST
PROCEDURES - DIFFERENTIAL MODE
DELAY (IEC 60793-1-49:2006 (EQV))**

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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60793-1-49

July 2006

ICS 33.180.10

Supersedes EN 60793-1-49:2003

English version

Optical fibres
Part 1-49: Measurement methods and test procedures -
Differential mode delay
(IEC 60793-1-49:2006)

Fibres optiques
Partie 1-49: Méthodes de mesure et
procédures d'essai -
Retard différentiel de mode
(CEI 60793-1-49:2006)

Lichtwellenleiter
Teil 1-49: Messmethoden und
Prüfverfahren -
Gruppenlaufzeitdifferenz
(IEC 60793-1-49:2006)

This European Standard was approved by CENELEC on 2006-07-01. 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, 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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 86A/1061/FDIS, future edition 2 of IEC 60793-1-49, prepared by SC 86A, Fibres and cables, of IEC TC 86, Fibre optics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60793-1-49 on 2006-07-01.

This European Standard supersedes EN 60793-1-49:2003.

It adds minimum calculated effective modal bandwidth (EMBc) to the test procedures, supporting EN 60793-2-10.

This standard is to be read in conjunction with EN 60793-1-1 and EN 60793-2-10.

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) | 2007-04-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2009-07-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60793-1-49:2006 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 60825-1 | NOTE | Harmonized as EN 60825-1:1994 (not modified). |
| IEC 60825-2 | NOTE | Harmonized as EN 60825-2:2004 (not modified). |
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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 60793-1-1	- ¹⁾	Optical fibres Part 1-1: Measurement methods and test procedures - General and guidance	EN 60793-1-1	2003 ²⁾
IEC 60793-1-22	- ¹⁾	Optical fibres Part 1-22: Measurement methods and test procedures - Length measurement	EN 60793-1-22	2002 ²⁾
IEC 60793-1-41	- ¹⁾	Optical fibres Part 1-41: Measurement methods and test procedures - Bandwidth	EN 60793-1-41	2003 ²⁾
IEC 60793-1-42	- ¹⁾	Optical fibres Part 1-42: Measurement methods and test procedures - Chromatic dispersion	EN 60793-1-42	2002 ²⁾
IEC 60793-1-45 (mod)	- ¹⁾	Optical fibres Part 1-45: Measurement methods and test procedures - Mode field diameter	EN 60793-1-45 + corr. April	2003 ²⁾ 2004
IEC 60793-2-10	- ¹⁾	Optical fibres Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres	EN 60793-2-10	2004 ²⁾
IEC 61280-1-4	- ¹⁾	Fibre optic communication subsystem test procedures Part 1-4: General communication subsystems - Collection and reduction of two-dimensional nearfield data for multimode fibre laser transmitters	EN 61280-1-4	2003 ²⁾

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

60793-1-49

Deuxième édition
Second edition
2006-06

Fibres optiques –

Partie 1-49:

**Méthodes de mesure et procédures d'essai –
Retard différentiel de mode**

Optical fibres –

Part 1-49:

**Measurement methods and test procedures –
Differential mode delay**



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