

**Kabli iz optičnih vlaken – 1-2. del: Splošne specifikacije - Osnovni preskusni postopki za optične kable (IEC 60794-1-2:2003)\***

Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures (IEC 60794-1-2:2003)

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EUROPEAN STANDARD

**EN 60794-1-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2003

ICS 33.180.10

Supersedes EN 60794-1-2:1999 + A1:2002

English version

**Optical fibre cables**  
**Part 1-2: Generic specification –**  
**Basic optical cable test procedures**  
(IEC 60794-1-2:2003)

Câbles à fibres optiques  
Partie 1-2: Spécification générique -  
Procédures de base applicables  
aux essais des câbles optiques  
(CEI 60794-1-2:2003)

Lichtwellenleiterkabel  
Teil 1-2: Fachgrundspezifikation -  
Grundlegende Prüfverfahren  
für Lichtwellenleiterkabel  
(IEC 60794-1-2:2003)

**iTeh STANDARD PREVIEW**

This European Standard was approved by CENELEC on 2003-11-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and 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/848/FDIS, future edition 2 of IEC 60794-1-2, 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 60794-1-2 on 2003-11-01.

This European Standard supersedes EN 60794-1-2:1999 + A1:2002.

This standard shall be used in conjunction with EN 60794-1-1:2002.

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) 2004-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2006-11-01

Annexes designated "normative" are part of the body of the standard.  
In this standard, annex ZA is normative.  
Annex ZA has been added by CENELEC.

## iTeh STANDARD PREVIEW (standard draft)

The text of the International Standard IEC 60794-1-2:2003 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 60068-2-14	1984	Environmental testing Part 2: Tests - Test N: Change of temperature	EN 60068-2-14 1)	1999
IEC 60227-2	1997	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V Part 2: Test methods	-	-
IEC 60544	Series	Electrical insulating materials - Determination of the effects of ionizing radiation	EN 60544	Series
IEC 60793-1-22	2001	Optical fibres Part 1-22: Measurement methods and test procedures - Length measurement	EN 60793-1-22	2002
IEC 60793-1-32 (mod)	2001	Part 1-32: Measurement methods and test procedures - Coating strippability	EN 60793-1-32	2003
IEC 60793-1-40 (mod)	2001	Part 1-40: Measurement methods and test procedures - Attenuation	EN 60793-1-40	2003
IEC 60793-1-46	2001	Part 1-46: Measurement methods and test procedures - Monitoring of changes in optical transmittance	EN 60973-1-46	2002
IEC 60793-1-54	2003	Part 1-54: Measurement methods and test procedures - Gamma irradiation	EN 60793-1-54	2003
IEC 60794-1-1	2001	Optical fibre cables Part 1-1: Generic specification - General	EN 60794-1-1	2002
IEC 60794-3	2001	Part 3: Sectional specification - Outdoor cables	EN 60794-3	2002

1) EN 60068-2-14 includes A1 to IEC 60068-2-14:1984.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60794-4	- 2)	Part 4: Sectional specification - Aerial optical cables along electrical power lines	EN 60794-4	2003 3)
IEC/TR3 61931	1998	Fibre optic - Terminology	-	-

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2) Undated reference.

3) Valid edition at date of issue.

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INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC

60794-1-2

Deuxième édition  
Second edition  
2003-05

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**Câbles à fibres optiques –**

**Partie 1-2:**

**Spécification générique –**

**Procédures de base applicables**

**aux essais des câbles optiques**

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**Optical fibre cables –**

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**Part 1-2:**

**Generic specification –**

**Basic optical cable test procedures**

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International Electrotechnical Commission  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## OPTICAL FIBRE CABLES –

Part 1-2: Generic specification –  
Basic optical cable test procedures

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60794-1-2 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

This second edition of IEC 60794-1-2 cancels and replaces the first edition published in 1999, and its amendment 1 (2002). It constitutes a technical revision.

This standard is intended to be used in conjunction with IEC 60794-1-1: *Optical fibre cables – Part 1-1: Generic specification – General*.

The text of this standard is based on the following documents

FDIS	Report on voting
86A/848/FDIS	86A/857/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.