BRITISH STANDARD

BS EN 60793-1-46: 2002

# Optical fibres —

## Part 1-46: Measurement methods and test procedures — Monitoring of changes in optical transmittance

The European Standard EN 60793-1-46:2002 has the status of a British Standard

ICS 33.180.10

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# National foreword

This British Standard is the official English language version of EN 60793-1-46:2002. It is identical with IEC 60793-1-46:2001. It partly supersedes BS EN 188000:1994 which will be withdrawn upon publication of the full BS EN 60793-1 series of standards.

The UK participation in its preparation was entrusted by Technical Committee GEL/86, Fibre optics, to Subcommittee GEL/86/1, Optical fibres and cables, which has the responsibility to:

— aid enquirers to understand the text;

— present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;

— monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

From 1 January 1997, all IEC publications have the number 60000 added to the old number. For instance, IEC 27-1 has been renumbered as IEC 60027-1. For a period of time during the change over from one numbering system to the other, publications may contain identifiers from both systems.

**Cross-references**

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled "International Standards Correspondence Index", or by using the "Find" facility of the BSI Standards Electronic Catalogue.

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This British Standard, having been prepared under the direction of the Electrotechnical Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 23 May 2002

**Summary of pages**

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EUROPEAN STANDARD **EN 60793-1-46**

NORME EUROPÉENNE

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ICS 33.180.10 Partly supersedes EN 188000:1992

English version

# Optical fibres
## Part 1-46: Measurement methods and test procedures - Monitoring of changes in optical transmittance
(IEC 60793-1-46:2001)

Fibres optiques
Partie 1-46: Méthodes de mesure et procédures d'essai - Contrôle des variations du facteur de transmission optique
(CEI 60793-1-46:2001)

Lichtwellenleiter
Teil 1-46: Messmethoden und Prüfverfahren - Überwachung der optischen Übertragungsänderungen
(IEC 60793-1-46:2001)

This European Standard was approved by CENELEC on 2001-07-03. 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.

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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**

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## Foreword

The text of document 86A/675/FDIS, future edition 1 of IEC 60793-1-46, 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 60793-1-46 on 2001-07-03.

This European Standard supersedes subclause 4.27 (test method 316) and subclause 4.28 (test method 317) of EN 188000:1992.

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) 2002-09-01

– latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2004-07-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annexes A, B and ZA are normative.
Annex ZA has been added by CENELEC.

Compared to IEC 60793-1:1989 and IEC 60793-2:1992, IEC/SC 86A has adopted a revised structure of the new IEC 60793 series: The individual measurement methods and test procedures for optical fibres are published as "Part 1-XX"; the product standards are published as "Part 2-XX".

The general relationship between the new series of EN 60793 and the superseded European Standards of the EN 188000 series is as follows:

| EN | Title | supersedes |
|---|---|---|
| EN 60793-1-XX | Optical fibres -- Part 1-XX: Measurement methods and test procedures | Individual subclauses of EN 188000:1992 |
| EN 60793-2-XX | Optical fibres -- Part 2-XX: Product specifications | EN 188100:1995<br>EN 188101:1995<br>EN 188102:1995<br>EN 188200:1995<br>EN 188201:1995<br>EN 188202:1995 |

EN 60793-1-4X consists of the following parts, under the general title: Optical fibres:

- Part 1-40: Measurement methods and test procedures – Attenuation
- Part 1-41: Measurement methods and test procedures – Bandwidth
- Part 1-42: Measurement methods and test procedures – Chromatic dispersion
- Part 1-43: Measurement methods and test procedures – Numerical aperture
- Part 1-44: Measurement methods and test procedures – Cut-off wavelength
- Part 1-45: Measurement methods and test procedures – Mode field diameter
- Part 1-46: Measurement methods and test procedures – Monitoring of changes in optical transmittance
- Part 1-47: Measurement methods and test procedures – Macrobending loss
- Part 1-48: Measurement methods and test procedures – Under consideration
- Part 1-49: Measurement methods and test procedures – Under consideration

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## Endorsement notice

The text of the International Standard IEC 60793-1-46:2001 was approved by CENELEC as a European Standard without any modification.

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