BRITISH STANDARD

BS EN 60794-1-1:2000
IEC 60794-1-1:1999
Incorporating Amendment No.1

Optical fibre cables —

Part 1-1: Generic specification — General

The European Standard EN 60794-1-1:1999 with the incorporation of amendment A1:2001 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 60794-1-1:1999, including amendment A1:2001. It is identical with IEC 60794-1-1:1999, including amendment 1:2000.

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.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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This British Standard, having been prepared under the direction of the Electrotechnical Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 May 2000

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 42, aninside back cover and a back cover.

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EUROPEAN STANDARD **EN 60794-1-1**

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English version

Optical fibre cables
Part 1-1: Generic specification – General
(includes amendment A1:2001)
(IEC 60794-1-1:1999 + A1:2000)

Câbles à fibres optiques
Partie 1-1: Spécification générique – Généralités
(inclut l'amendement A1:2001)
(CEI 60794-1-1:1999 + A1:2000)

Lichtwellenleiterkabel
Teil 1-1: Fachgrundspezifikation – Allgemeines
(enthält Änderung A1:2001)
(IEC 60794-1-1:1999 + A1:2000)

This European Standard was approved by CENELEC on 1999-08-01. Amendment A1 was approved by CENELEC on 2000-08-01. 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 amendment 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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and 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 86A/471/FDIS, future edition 1 of IEC 60794-1-1, 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 60794-1-1 on 1999-08-01.

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) 2000-05-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2002-08-01

This standard is to be used in conjunction with EN 60794-1-2:1999.

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annexes A, B and C are informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60794-1-1:1999 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A1

The text of amendment 1:2000 to the International Standard IEC 60794-1-1:1999, prepared by SC 86A, Fibres and cables, of IEC TC 86, Fibre optics, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to EN 60794-1-1:1999 on 2000-08-01 without any modification.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2001-12-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2003-08-01

Endorsement notice

The text of amendment 1:2000 to the International Standard IEC 60794-1-1:1999 was approved by CENELEC as an amendment to the European Standard without any modification.

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OPTICAL FIBRE CABLES –

Part 1-1: Generic specification – General

1 Scope and object

This part of International Standard IEC 60794 applies to optical fibre cables for use with telecommunication equipment and devices employing similar techniques, and to cables having a combination of both optical fibres and electrical conductors.

The object of this standard is to establish uniform generic requirements for the geometrical, transmission, material, mechanical, ageing (environmental exposure) and climatic properties of optical fibre cables, and electrical requirements where appropriate.

Annex A contains information pertinent to short-distance links for many of the cables of this specification set.

Annex B contains guidance for users of this specification set in procuring optical cables complient with these specifications.

Annex C is a guide to the installation of optical fibre cables.

2 Normative references

2.1 The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60794. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 60794 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60189-1:1986, *Low-frequency cables and wires with PVC insulation and PVC sheath – Part 1: General test and measuring methods*

IEC 60331:1970, *Fire-resisting characteristics of electric cables*

IEC 60332-1:1993, *Tests on electric cables under fire conditions – Part 1: Test on a single vertical insulated wire or cable*

IEC 60332-3:1992, *Tests on electric cables under fire conditions – Part 3: Tests on bunched wires or cables*

IEC 60754-1:1994, *Test on gases evolved during combustion of materials from cables – Part 1: Determination of the amount of halogen acid gas*

IEC 60754-2:1991, *Test on gases evolved during combustion of electric cables – Part 2: Determination of degree of acidity of gases evolved during the combustion of materials taken from electric cables by measuring pH and conductivity*

IEC 60793-1-1:1995*, Optical fibres – Part 1: Generic specification – Section 1: General*

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