Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 60794-1-2:2017 sisaldab Euroopa standardi EN 60794-1-2:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 60794-1-2:2017 consists of the English text of the European standard EN 60794-1-2:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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ICS 33.180.10

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 60794-1-2

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Supersedes EN 60794-1-2:2014

English Version

Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance (IEC 60794-1-2:2017)

Câbles à fibres optiques - Partie 1-2: Spécification générique - Procédures fondamentales d'essais des câbles optiques - Lignes directrices générales (IEC 60794-1-2:2017)

Lichtwellenleiterkabel - Teil 1-2: Fachgrundspezifikation - Grundlegende Prüfverfahren für Lichtwellenleiterkabel - Allgemeine Anleitung (IEC 60794-1-2:2017)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

The text of document 86A/1767/FDIS, future edition 4 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 approved by CENELEC as EN 60794-1-2:2017.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2020-02-16 the document have to be withdrawn

This document supersedes EN 60794-1-2:2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60794-1-2:2017 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 60794-1-21	NOTE	Harmonized as EN 60794-1-21.
IEC 60794-1-22	NOTE	Harmonized as EN 60794-1-22.
IEC 60794-1-23	NOTE	Harmonized as EN 60794-1-23.
IEC 60794-1-24	NOTE	Harmonized as EN 60794-1-24.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication IEC 60793-1-40	<u>Year</u> -	<u>Title</u> <u>EN/HD</u> <u>Year</u> Optical fibres Part 1-40: MeasurementEN 60793-1-40 -
IEC 60793-1-46	-	methods and test procedures - Attenuation Optical fibres Part 1-46: MeasurementEN 60793-1-46 methods and test procedures - Monitoring
IEC 60793-2-40	-	of changes in optical transmittance Optical fibres - Part 2-40: ProductEN 60793-2-40 - specifications - Sectional specification for
IEC 60794-1-1	2015	specifications - Sectional specification for category A4 multimode fibres Optical fibre cables - Part 1-1: GenericEN 60794-1-1 2016 specification - General

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INTRODUCTION

20 noe w eent, whi IEC 60794-1-2:2013 comprised a detailed cross-reference table to the new document set, and general guidance was given in IEC 60794-1-20. These two specifications have been combined in this document, which allows for IEC 60794-1-20 to be withdrawn.

OPTICAL FIBRE CABLES -

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

1 Scope

This part of IEC 60794-1 applies to optical fibre cables for use with telecommunications equipment and devices employing similar techniques, and to cables having a combination of both optical fibres and electrical conductors.

The prime objective of this document is to provide the end user with an overview about the content of different parts of the IEC 60794-1 series numbered -2X. Table 1 shows the different parts.

Table 1 – Document overview

Test methods	IEC reference
General guidance	IEC 60794-1-2
Methods E – Mechanical	IEC 60794-1-21
Methods F – Environmental	IEC 60794-1-22
Methods G – Cable elements	IEC 60794-1-23
Methods H – Electrical	IEC 60794-1-24

NOTE Several numbers in the test method numbering sequence are missing. The reasons for these omissions are historical. To avoid confusion, the existing numbering sequence has been retained.

These documents define test procedures to be used in establishing uniform requirements for the geometrical, transmission, material, mechanical, ageing (environmental exposure) and climatic properties of optical fibre cables, and electrical requirements where appropriate.

Throughout the documents, the wording "optical cable" can also include optical fibre units, microduct fibre units, etc.

The secondary objective of this document is to provide the end user with useful guidance when testing optical fibre cables.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 60793-1-40, Optical fibres – Part 1-40: Measurement methods and test procedures – Attenuation

IEC 60793-1-46, Optical fibres – Part 1-46: Measurement methods and test procedures – Monitoring of changes in optical transmittance