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Optokablar – Del 1-404: Artspecifikation – Grundläggande provningsmetoder – Elektriska testmetoder – Ström-/temperaturtest, metod H4

*Optical fibre cables –
Part 1-404: Generic specification –
Basic optical cable test procedures –
Electrical test methods –
Current-temperature test, method H4*

Som svensk standard gäller europastandarden EN IEC 60794-1-404:2022. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 60794-1-404:2022.

Nationellt förord

Europastandarden EN IEC 60794-1-404:2022

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 60794-1-404, First edition, 2022 - Optical fibre cables - Part 1-404: Generic specification - Basic optical cable test procedures - Electrical test methods - Current-temperature test, method H4**

utarbetad inom International Electrotechnical Commission, IEC.

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English Version

Optical fibre cables - Part 1-404: Generic specification - Basic
optical cable test procedures - Electrical test methods - Current-
temperature test, method H4
(IEC 60794-1-404:2022)

Câbles à fibres optiques - Partie 1-404: Spécification
générique - Procédures fondamentales d'essais des câbles
optiques - Méthodes d'essais électriques - Essai de
courant-température, méthode H4
(IEC 60794-1-404:2022)

Lichtwellenleiterkabel - Teil 1-404: Fachgrundspezifikation -
Grundlegende Prüfverfahren für Lichtwellenleiterkabel -
Elektrische Prüfverfahren - Strom-Temperatur Prüfung,
Verfahren H4
(IEC 60794-1-404:2022)

This European Standard was approved by CENELEC on 2022-03-17. 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 CEN-CENELEC Management Centre or to any CENELEC member.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 86A/2170/FDIS, future edition 1 of IEC 60794-1-404, 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 IEC 60794-1-404:2022.

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 (dop) 2022-12-17
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-03-17

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

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 60794-1-404:2022 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60793-1-46	-	Optical fibres - Part 1-46: Measurement methods and test procedures - Monitoring of changes in optical transmittance	EN 60793-1-46	-
IEC TR 61597	-	Overhead electrical conductors - Calculation methods for stranded bare conductors	-	-

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Optical fibre cables –

**Part 1-404: Generic specification – Basic optical cable test procedures –
Electrical test methods – Current-temperature test, method H4**

Câbles à fibres optiques –

**Partie 1-404: Spécification générique – Procédures fondamentales d'essais des
câbles optiques – Méthodes d'essais électriques – Essai de
courant-température, méthode H4**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 1-404: Generic specification –
Basic optical cable test procedures – Electrical test methods –
Current-temperature test, method H4**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). 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. 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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IEC 60794-1-404 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
86A/2170/FDIS	86A/2185/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts in the IEC 60794 series, published under the general title *Optical fibre cables*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

OPTICAL FIBRE CABLES –

Part 1-404: Generic specification – Basic optical cable test procedures – Electrical test methods – Current-temperature test, method H4

1 Scope

This part of IEC 60794 defines a test standard to determine the optical performance and temperature characteristics of a hybrid cable under the maximum current.

This document applies to optical phase conductor (OPPC). An optical phase conductor is made of multiple metallic wires that are exposed to the environment without any insulating or protective sheath and contain optical fibres.

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

IEC TR 61597, *Overhead electrical conductors – Calculation methods for stranded bare conductors*