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Optokablar – Del 1-403: Artspecifikation – Grundläggande provningsmetoder – Elektriska testmetoder – Elektriskt kontinuitetstest av kablars metallelement

*Optical fibre cables –
Part 1-403: Generic specification –
Basic optical cable test procedures –
Electrical test methods –
Electrical continuity test of cable metallic elements, method H3*

Som svensk standard gäller europastandarden EN IEC 60794-1-403:2021. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 60794-1-403:2021.

Nationellt förord

Europastandarden EN IEC 60794-1-403:2021

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 60794-1-403, First edition, 2021 - Optical fibre cables - Part 1-403: Generic specification - Basic optical cable test procedures - Electrical test methods - Electrical continuity test of cable metallic elements, method H3**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 60794-1-24, utgåva 1, 2014, gäller ej fr o m 2024-05-31.

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SEK Svensk Elstandard

Box 1284
164 29 Kista
Tel 08-444 14 00
www.elstandard.se

English Version

Optical fibre cables - Part 1-403: Generic specification - Basic
optical cable test procedures - Electrical test methods - Electrical
continuity test of cable metallic elements, method H3
(IEC 60794-1-403:2021)

Câbles à fibres optiques - Partie 1-403: Spécification
générique - Procédures fondamentales d'essais des câbles
optiques - Méthodes d'essais électriques - Essai de
continuité électrique des éléments métalliques des câbles,
méthode H3
(IEC 60794-1-403:2021)

Lichtwellenleiterkabel - Grundlegende Prüfverfahren für
Lichtwellenleiterkabel - Teil 403: Elektrische Prüfverfahren -
Elektrische Durchgangsprüfungen von metallischen
Kabelementen, Verfahren H3
(IEC 60794-1-403:2021)

This European Standard was approved by CENELEC on 2021-05-31. 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.

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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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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/2035/CDV, future edition 1 of IEC 60794-1-403, 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 60794-1-403:2021.

The following dates are fixed:

- latest date by which the document has to be implemented (dop) 2022-02-28
at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2024-05-31
the document have to be withdrawn

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.

Endorsement notice

The text of the International Standard IEC 60794-1-403:2021 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 60794-1-2	NOTE	Harmonized as EN IEC 60794-1-2
IEC 60794-1-24:2014	NOTE	Harmonized as EN 60794-1-24:2014 (not modified)

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 60794-1-1	-	Optical fibre cables - Part 1-1: Generic specification - General	EN 60794-1-1	-

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Optical fibre cables –

**Part 1-403: Generic specification – Basic optical cable test procedures –
Electrical test methods – Electrical continuity test of cable metallic elements,
method H3**

Câbles à fibres optiques –

**Partie 1-403: Spécification générique – Procédures fondamentales d'essais
des câbles optiques – Méthodes d'essais électriques – Essai de continuité
électrique des éléments métalliques des câbles, méthode H3**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 1-403: Generic specification – Basic optical cable
test procedures – Electrical test methods – Electrical continuity
test of cable metallic elements, method H3**

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 60794-1-403 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This document partially cancels and replaces IEC 60794-1-24:2014.

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

CDV	Report on voting
86A/2035/CDV	86A/2076/RVC

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 the 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.

INTRODUCTION

This document contains method H3 of IEC 60794-1-24:2014, which will be withdrawn. The system for optical fibre test methods have been restructured and renumbered. The electrical tests contained in IEC 60794-1-24:2014 will now be individually numbered in the IEC 60794-1-4xx series. Each test method is now considered to be an individual document rather than part of a multi-test method compendium. Full cross-reference details of the methods are given in IEC 60794-1-2.

OPTICAL FIBRE CABLES –

Part 1-403: Generic specification – Basic optical cable test procedures – Electrical test methods – Electrical continuity test of cable metallic elements, method H3

1 Scope

This part of IEC 60794 specifies a method of verifying that cable metallic elements are electrically continuous throughout the cable. Electrical continuity is important for bonding and grounding, toning for location, and other related system issues, and may represent a "goodness of manufacture" criterion. Typically, the test is one of continuity and carries no resistance or conductivity requirement. The metallic elements can be tested individually or can be tested as a total group. Since this latter criterion is frequently the case, all elements are measured as a group unless specified otherwise.

NOTE It is possible detail specifications allow such elements as strength members to be non-continuous throughout the cable. This is a special case, and attention is directed to the detail specification.

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 60794-1-1, *Optical fibre cables – Part 1-1: Generic specification – General*