

<b>STN</b>	<b>Optické káble</b> <b>Časť 1-104: Kmeňová špecifikácia</b> <b>Základné skúšobné postupy na optické káble</b> <b>Mechanické skúšobné metódy</b> <b>Náraz, metóda E4</b>	<b>STN</b> <b>EN IEC</b> <b>60794-1-104</b>  35 9223
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Optical fibre cables - Part 1-104: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Impact, method E4

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/24

Táto norma čiastočne nahrádza normu STN EN 60794-1-21 zo septembra 2015. Súbežná platnosť do 7. 6. 2027.

Obsahuje: EN IEC 60794-1-104:2024, IEC 60794-1-104:2024

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EUROPEAN STANDARD

**EN IEC 60794-1-104**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2024

ICS 33.180.10

Supersedes EN 60794-1-21:2015 (partially)

English Version

**Optical fibre cables - Part 1-104: Generic specification - Basic  
optical cable test procedures - Mechanical tests methods -  
Impact, method E4  
(IEC 60794-1-104:2024)**

Câbles à fibres optiques - Partie 1-104: Spécification  
générique - Procédures fondamentales d'essais des câbles  
optiques - Méthodes d'essais mécaniques - Chocs,  
méthode E4  
(IEC 60794-1-104:2024)

Lichtwellenleiterkabel - Teil 1-104: Fachgrundspezifikation -  
Grundlegende Prüfverfahren für Lichtwellenleiterkabel -  
Mechanische Prüfverfahren - Schlagprüfung, Verfahren E4  
(IEC 60794-1-104:2024)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 60794-1-104:2024 (E)****European foreword**

The text of document 86A/2360/CDV, future edition 1 of IEC 60794-1-104, 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 60794-1-104:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-03-07 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-06-07 document have to be withdrawn

This document partially supersedes EN 60794-1-21:2015 and all of its amendments and corrigenda (if any).

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## 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.cencenelec.eu](http://www.cencenelec.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 60794-1-1	-	Optical fibre cables - Part 1-1: Generic specification - General	EN IEC 60794-1-1	-
IEC 60794-1-2	-	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance	EN IEC 60794-1-2	-



IEC 60794-1-104

Edition 1.0 2024-05

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Optical fibre cables –  
Part 1-104: Generic specification – Basic optical cable test procedures –  
Mechanical tests method – Impact, method E4**

**Câbles à fibres optiques –  
Partie 1-104: Spécification générique – Procédures fondamentales d’essais des  
câbles optiques – Méthodes d’essais mécaniques – Chocs, méthode E4**



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IEC 60794-1-104

Edition 1.0 2024-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Optical fibre cables –  
Part 1-104: Generic specification – Basic optical cable test procedures –  
Mechanical tests method – Impact, method E4**

**Câbles à fibres optiques –  
Partie 1-104: Spécification générique – Procédures fondamentales d’essais des  
câbles optiques – Méthodes d’essais mécaniques – Chocs, méthode E4**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## OPTICAL FIBRE CABLES –

**Part 1-104: Generic specification –  
Basic optical cable test procedures –  
Mechanical tests methods – Impact, method E4**

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IEC 60794-1-104 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 60794-1-21:2015, which will be withdrawn. In the context of the revision of IEC 60794-1-21:2015, its contents were split into separate test methods. It includes an editorial revision, based on the new structure and numbering system for optical fibre cable test methods.

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

Draft	Report on voting
86A/2360/CDV	86A/2421/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/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](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

## INTRODUCTION

This document cancels and replaces test method E4 of IEC 60794-1-21:2015, which will be withdrawn. It includes an editorial revision, based on the new structure and numbering system for optical fibre cable test methods. The mechanical tests contained in IEC 60794-1-21:2015 will be individually numbered in the IEC 60794-1-1xx 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 are given in IEC 60794-1-2.

## OPTICAL FIBRE CABLES –

### **Part 1-104: Generic specification – Basic optical cable test procedures – Mechanical tests methods – Impact, method E4**

#### **1 Scope**

This part of 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.

This document defines test procedures to be used in establishing uniform requirements for impact performance.

Throughout this document the wording “optical cable” includes optical fibre units, microduct fibre units, etc.

See IEC 60794-1-2 for general requirements and definitions and for a complete reference guide to test methods of all types.

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

IEC 60794-1-2, *Optical fibre cables – Part 1-2: Generic specification – Basic optical cable test procedures – General guidance*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**