

STN	Optické káble Časť 1-301: Všeobecné špecifikácie Základné skúšobné postupy na optické káble Skúšobné metódy pre prvky kábla Skúška ohybom, metóda G1	STN EN IEC 60794-1-301 35 9223
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Optical fibre cables - Part 1-301: Generic specification - Basic optical cable test procedures - Cable elements test methods - Bend test, method G1

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. 07/23

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EUROPEAN STANDARD

EN IEC 60794-1-301

NORME EUROPÉENNE

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English Version

**Optical fibre cables - Part 1-301: Generic specification - Basic
optical cable test procedures - Cable elements test methods -
Bend test, method G1
(IEC 60794-1-301:2023)**

Câbles à fibres optiques - Partie 1-301: Spécification
générique - Procédures fondamentales d'essai des câbles
optiques - Méthodes d'essai des éléments de câbles - Essai
de courbure, méthode G1
(IEC 60794-1-301:2023)

Lichtwellenleiterkabel - Teil 1-301: Fachgrundspezifikation -
Grundlegende Prüfverfahren für Lichtwellenleiterkabel -
Prüfverfahren für Kabelelemente - Biegeprüfung, Verfahren
G1
(IEC 60794-1-301:2023)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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EN IEC 60794-1-301:2023 (E)**European foreword**

The text of document 86A/2298/FDIS, future edition 1 of IEC 60794-1-301, 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 60794-1-301:2023.

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) 2024-02-10
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This document partially supersedes EN IEC 60794-1-23:2019 and all of its amendments and corrigenda (if any).

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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60794-1-21:2015 NOTE Approved as EN 60794-1-21:2015 (not modified)

IEC 60794-1-23:2019 NOTE Approved as EN IEC 60794-1-23:2019 (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.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 60794-1-2	-	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance	EN IEC 60794-1-2	-



IEC 60794-1-301

Edition 1.0 2023-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Optical fibre cables –
Part 1-301: Generic specification – Basic optical cable test procedures – Cable
elements test methods – Bend test, method G1**

**Câbles à fibres optiques –
Partie 1-301: Spécification générique – Procédures fondamentales d’essai des
câbles optiques – Méthodes d’essai des éléments de câbles – Essai de
courbure, méthode G1**



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IEC 60794-1-301

Edition 1.0 2023-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Optical fibre cables –

Part 1-301: Generic specification – Basic optical cable test procedures – Cable elements test methods – Bend test, method G1

Câbles à fibres optiques –

Partie 1-301: Spécification générique – Procédures fondamentales d’essai des câbles optiques – Méthodes d’essai des éléments de câbles – Essai de courbure, méthode G1

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 1-301: Generic specification – Basic optical cable test procedures –
Cable elements test methods – Bend test, method G1**

FOREWORD

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IEC 60794-1-301 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 60794-1-23:2019.

This edition includes the following significant technical changes with respect to IEC 60794-1-23:2019:

- a) reference test method IEC 60793-1-40 removed regarding the apparatus;
- b) information added regarding the temperature to be specified in the detail specification;
- c) new subclause added containing the details to be reported.

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

Draft	Report on voting
86A/2298/FDIS	86A/2318/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/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.

INTRODUCTION

This document contains method G1 of IEC 60794-1-23:2019, which will be withdrawn. The optical cable element test methods contained in IEC 60794-1-23:2019 will now be individually numbered in the IEC 60794-1-3xx 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 1-301: Generic specification – Basic optical cable test procedures – Cable elements test methods – Bend test, method G1

1 Scope

This part of IEC 60794 describes test procedures to be used in establishing uniform requirements of optical fibre cable elements for the mechanical property – bending.

This document 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.

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

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

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

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