

STN	Optické káble Časť 1-307: Všeobecné špecifikácie Základné skúšobné postupy pre optické káble Skúšobné metódy pre prvky kábla Ohýbanie rúrky, metóda G7	STN EN IEC 60794-1-307 35 9223
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Optical fibre cables - Part 1-307: Generic specification - Basic optical cable test procedures - Cable element test methods - Tube kinking, method G7

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. 07/25

Táto norma čiastočne nahrádza normu STN EN IEC 60794-1-23 z júla 2020. Súbežná platnosť do 30. 4. 2028.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60794-1-307

April 2025

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Supersedes EN IEC 60794-1-23:2019 (partially)

English Version

**Optical fibre cables - Part 1-307: Generic specification - Basic
optical cable test procedures - Cable element test methods -
Tube kinking, method G7
(IEC 60794-1-307:2025)**

Câbles à fibres optiques - Partie 1-307: Spécification
générique - Procédures fondamentales d'essai des câbles
optiques - Méthodes d'essai des éléments de câble - Pliure
du tube, méthode G7
(IEC 60794-1-307:2025)

Lichtwellenleiterkabel - Teil 1-307: Fachgrundspezifikation -
Grundlegende Prüfverfahren für optische Kabel -
Prüfverfahren für Kabelelemente - Schlauchknickung,
Verfahren G7
(IEC 60794-1-307:2025)

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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

EN IEC 60794-1-307:2025 (E)**European foreword**

The text of document 86A/2537/FDIS, future edition 1 of IEC 60794-1-307, 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 60794-1-307:2025.

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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

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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 60794-1-307

Edition 1.0 2025-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Optical fibre cables –

Part 1-307: Generic specification – Basic optical cable test procedures – Cable element test methods – Tube kinking, method G7

Câbles à fibres optiques –

Partie 1-307: Spécification générique – Procédures fondamentales d'essai des câbles optiques – Méthodes d'essai des éléments de câble – Pliure du tube, méthode G7

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IEC 60794-1-307

Edition 1.0 2025-03

INTERNATIONAL STANDARD

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Optical fibre cables –

Part 1-307: Generic specification – Basic optical cable test procedures – Cable element test methods – Tube kinking, method G7

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 1-307: Generic specification – Basic optical cable test procedures –
Cable element test methods – Tube kinking, method G7**

FOREWORD

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IEC 60794-1-307 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This first edition partially cancels and replaces the second edition of IEC 60794-1-23 published in 2019. This edition constitutes a technical revision.

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

- a) renumbering of the existing test method G7 as G7A;
- b) addition of test parameter L and calculated loop diameter D in Table 1 for method G7A;
- c) addition of a new test procedure for tubes routed within installation devices and numbering it as G7B.

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

Draft	Report on voting
86A/2537/FDIS	86A/2548/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, or
- revised.

INTRODUCTION

This document contains method G7 of IEC 60794-1-23:2019, which will be withdrawn. The system for optical fibre test methods has been restructured and renumbered.

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 1-307: Generic specification – Basic optical cable test procedures – Cable element test methods – Tube kinking, method G7

1 Scope

This part of IEC 60794 describes test procedures used in establishing uniform requirements of tubes for the mechanical property kinking.

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*

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