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Optical fibre cables - Part 1-101: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Tensile, method E1

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NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 60794-1-101

June 2024

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

English Version

Optical fibre cables - Part 1-101: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Tensile, method E1 (IEC 60794-1-101:2024)

Câbles à fibres optiques - Partie 1-101: Spécification générique - Procédures fondamentales d'essais des câbles optiques - Méthodes d'essais mécaniques - Traction, méthode E1
(IEC 60794-1-101:2024)

Lichtwellenleiterkabel - Teil 1-101: Fachgrundspezifikation - Grundlegende Prüfverfahren für Lichtwellenleiterkabel - Mechanische Prüfverfahren - Zug, Verfahren E1
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The text of document 86A/2359/CDV, future edition 1 of IEC 60794-1-101, 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 60794-1-101:2024.

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) 2025-03-19
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IEC 60794-1-101

Edition 1.0 2024-05

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Optical fibre cables –
Part 1-101: Generic specification – Basic optical cable test procedures – Mechanical tests methods – Tensile, method E1

Câbles à fibres optiques –
Partie 1-101: Spécification générique – Procédures fondamentales d'essais des câbles optiques – Méthodes d'essais mécaniques – Traction, méthode E1

IEC 60794-1-101:2024-05(en-fr)

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CONTENTS

FOREWORD 3
INTRODUCTION 5
1 Scope 6
2 Normative references 6
3 Terms and definitions 6
4 Method E1: Tensile performance 7
4.1 Object 7
4.2 Sample length 7
4.3 Apparatus 7
4.4 Procedure 8
4.4.1 General requirements and preparation 8
4.4.2 Procedure 9
4.5 Requirements 9
4.6 Details to be specified 9
4.7 Details to be reported 9

Figure 1 – Tensile performance measuring apparatus 7
Figure 2 – Example of tensile performance measuring apparatus using transfer devices and chuck drums 8

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OPTICAL FIBRE CABLES –

Part 1-101: Generic specification – Basic optical cable test procedures – Mechanical tests methods – Tensile, method E1

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IEC 60794-1-101 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This document cancels and replaces 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.

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

Draft	Report on voting
86A/2359/CDV	86A/2420/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/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

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- withdrawn, or
- revised.

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INTRODUCTION

This document cancels and replaces test method E1 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.

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OPTICAL FIBRE CABLES –

Part 1-101: Generic specification – Basic optical cable test procedures – Mechanical tests methods – Tensile, method E1

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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 tensile 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 60793-1-22, *Optical fibres – Part 1-22: Measurement methods and test procedures – Length measurement*

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

IEC 60794-1-1:2023, *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*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60794-1-1 apply.

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