

INTERNATIONAL STANDARD

**Optical fibre cables -
Part 1-127: Generic specification - Basic optical cable test procedures -
Mechanical tests methods - Indoor simulated installation test, method E27**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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IEC 60794-1-127 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This first edition cancels and replaces Method E27 of the first edition of IEC 60794-1-21 published in 2015, and its Amendment 1:2020. It constitutes a technical revision.

This edition includes the following significant technical changes with respect to Method E27 of IEC 60794-1-21:2015, and 60794-1-21:2015/AMD1:2020:

- a) addition of a new Clause 11 "Details to be reported".

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

Draft	Report on voting
86A/2697A/FDIS	86A/2725/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- withdrawn, or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

Method E27 was previously specified in IEC 60794-1-21, which will be withdrawn. This document 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 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.

1 Scope

This part of IEC 60794 defines the test procedures used to establish uniform requirements for mechanical performance – Indoor simulated installation test. It 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 this 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 60794-1-1, *Optical fibres - 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*

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

Bibliography

IEC 60794-1-21, *Optical fibre cables - Part 1-21: Generic specification - Basic optical cable test procedures - Mechanical tests methods*

IEC 60794-1-1xx (all parts), *Optical fibre cables - Part 1-1xx: Generic specification - Basic optical cable test procedures - Mechanical tests methods*
