

SLOVENSKI STANDARD
oSIST prEN IEC 60794-1-117:2025
01-maj-2025

Optični kabli - 1-117. del: Splošna specifikacija - Osnovni preskusni postopki za optične kable - Mehanske preskusne metode - Upogibna togost, metoda E17

Optical fibre cables - Part 1-117: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Bending stiffness, Method E17

Câbles à fibres optiques - Partie 1-117: Spécification générique - Procédures fondamentales d'essais des câbles optiques - Méthodes d'essais mécaniques - Raideur, méthode E17

Ta slovenski standard je istoveten z: prEN IEC 60794-1-117:2025

[oSIST prEN IEC 60794-1-117:2025](https://standards.iteh.ai/catalog/standards/sist/8d5df4dc-396f-4b17-a0c1-a34a052ac953/osist-pr-en-iec-60794-1-117-2025)

<https://standards.iteh.ai/catalog/standards/sist/8d5df4dc-396f-4b17-a0c1-a34a052ac953/osist-pr-en-iec-60794-1-117-2025>

ICS:

33.180.10 (Optična) vlakna in kabli Fibres and cables

oSIST prEN IEC 60794-1-117:2025 en



86A/2540/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 60794-1-117 ED1

DATE OF CIRCULATION:

2025-03-07

CLOSING DATE FOR VOTING:

2025-05-30

SUPERSEDES DOCUMENTS:

86A/2437/CD, 86A/2498/CC

IEC SC 86A : FIBRES AND CABLES

SECRETARIAT:

France

SECRETARY:

Mr Laurent Gasca

OF INTEREST TO THE FOLLOWING COMMITTEES:

HORIZONTAL FUNCTION(S):

ASPECTS CONCERNED:

☒ SUBMITTED FOR CENELEC PARALLEL VOTING☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING**Attention IEC-CENELEC parallel voting**

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.

The CENELEC members are invited to vote through the CENELEC online voting system.

oSIST prEN IEC 60794-1-117:2025

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Optical fibre cables - Part 1-117: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Bending stiffness, Method E17

PROPOSED STABILITY DATE: 2028

NOTE FROM TC/SC OFFICERS:

Copyright © 2025 International Electrotechnical Commission, IEC. All rights reserved. It is permitted to download this electronic file, to make a copy and to print out the content for the sole purpose of preparing National Committee positions. You may not copy or "mirror" the file or printed version of the document, or any part of it, for any other purpose without permission in writing from IEC.

CONTENTS

CONTENTS	2
FOREWORD	3
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Method E17: Bending stiffness	5
4.1 Object	5
4.2 General	6
4.3 Method E17A: Three-point bend	6
4.3.1 Sample	6
4.3.2 Apparatus	6
4.3.3 Procedure	6
4.3.4 Requirements	7
4.3.5 Details to be specified	7
4.3.6 Details to be reported	7
4.4 Method E17B: cantilever bend	7
4.4.1 Sample	7
4.4.2 Apparatus	7
4.4.3 Procedure	8
4.4.4 Requirements	8
4.4.5 Details to be specified	8
4.4.6 Details to be reported	8
4.5 Method E17C: Buckling bend	8
4.5.1 Sample	8
4.5.2 Apparatus	8
4.5.3 Procedure	8
4.5.4 Requirements	9
4.5.5 Details to be specified	9
4.5.6 Details to be reported	9
Figure 1 – Method E17A – Test set-up	9
Figure 2 – Example of results of applied force and displacement	10
Figure 3 – Method E17B – Test set-up	10
Figure 4 – Method E17C – Test set-up	10

INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 1-117: Generic specification –
Basic optical cable test procedures –
Mechanical test methods – Bending stiffness, method E17**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights. International Standard IEC 60794-1-21 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

IEC 60794-1-110 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 E17 of the first edition of IEC 60794-1-21:2015, which will be withdrawn. It constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) added a new clause “4.3.6 Details to be reported”;
- b) added a new clause “4.4.6 Details to be reported”;
- c) added a new clause “4.5.6 Details to be reported”.

The text of this is based on the following documents:

Draft	Report on voting
-------	------------------

XX/XX/FDIS	XX/XX/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/standardsdev/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://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.

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[oSIST prEN IEC 60794-1-117:2025](https://standards.itih.ai/catalog/standards/sist/8d5df4dc-396f-4b17-a0c1-a34a052ac953/osist-pren-iec-60794-1-117-2025)

<https://standards.itih.ai/catalog/standards/sist/8d5df4dc-396f-4b17-a0c1-a34a052ac953/osist-pren-iec-60794-1-117-2025>