IEC 60794-1-305

Edition 1.0 2023-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Optical fibre cables –
Part 1-305: Generic specification – Basic optical cable test procedures – Cable element test methods – Ribbon tear (separability), Method G5

Câbles à fibres optiques –
Partie 1-305: Spécification générique – Procédures fondamentales d'essai des câbles optiques – Méthodes d'essai des éléments de câble – Déchirure du ruban (séparabilité), Méthode G5



IEC 60794-1-305:2023-01(en-fr)



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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 33.180.10

ISBN 978-2-8322-6304-4

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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OPTICAL FIBRE CABLES –

Part 1-305: Generic specification – Basic optical cable test procedures – Cable element test methods – Ribbon tear (separability), Method G5

FOREWORD

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IEC 60794-1-305 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This first edition of IEC 60794-1-305 cancels and replaces method G5 of 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 the second edition of IEC 60794-1-23:2019:

a) 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.

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

Draft	Report on voting
86A/2249/FDIS	86A/2271/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.

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OPTICAL FIBRE CABLES –

Part 1-305: Generic specification – Basic optical cable test procedures – Cable element test methods – Ribbon tear (separability), Method G5

1 Scope

This part of IEC 60794 describes test procedures to be used in establishing uniform requirements for optical fibre ribbons as optical fibre cable elements for the mechanical property-tear (separability).

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.

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

This test is applicable for edge-bonded ribbons and encapsulated ribbons specified in IEC 60794-1-31, and not intended to be used for partially-bonded ribbons.

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 60794-1-31, *Optical fibre cables – Part 1-31: Generic specification – Optical cable elements – Optical fibre ribbon*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

4 General requirements

IEC 60794-1-2 is the reference guide to test methods of all types. It shall be considered for general requirements and definitions.