Optical fibre cables –
Part 1-308: Generic specification – Basic optical cable test procedures – Cable element test methods – Ribbon residual twist test, method G8
## Project Number:

**IEC 60794-1-308 ED1**

## Date of Circulation:

2022-12-16

## Closing Date for Voting:

2023-01-27

## Supercedes Documents:

86A/2215/CDV, 86A/2248/RVC

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**IEC SC 86A : FIBRES AND CABLES**

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<tr>
<th>Secretariat:</th>
<th>France</th>
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<tr>
<td>Secretary:</td>
<td>Mr Laurent Gasca</td>
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**Functions Concerned:**

- EMC
- Environment
- Quality Assurance
- Safety

**Submitted for CENELEC Parallel Voting**

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Final Draft International Standard (FDIS) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.

**Attention IEC-CENELEC parallel voting**

This document is a draft distributed for approval. It may not be referred to as an International Standard until published as such.

In addition to their evaluation as being acceptable for industrial, technological, commercial and user purposes, Final Draft International Standards may on occasion have to be considered in the light of their potential to become standards to which reference may be made in national regulations.

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 also invited to consider for future work to include relevant "in some countries" clauses. Recipients are reminded that the enquiry stage is the final stage for submitting "in some countries" clauses. See AC/22/2007.

**Title:**

**Optical fibre cables - Part 1-308: Generic specification - Basic optical cable test procedures - Cable element test methods – Ribbon residual twist test, method G8**

**Proposed Stability Date:**

2025

**Note from TC/SC Officers:**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

Part 1-308: Generic specification – Basic optical cable test procedures –
Cable element test methods – Ribbon residual twist test, method G8

FOREWORD

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IEC 60794-1-308 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This document partially cancels and replaces IEC 60794-1-23:2019.

This edition includes the following significant technical change with respect to IEC 60794-1-23:2019: mention in Clause 1 that this test is not applicable to partially-bonded ribbons.

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

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<th>Draft</th>
<th>Report on voting</th>
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<td>86A/XX/FDIS</td>
<td>86A/XX/RVD</td>
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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.
INTRODUCTION

This document contains method G8 of IEC 60794-1-23:2019, which will be withdrawn. The system for optical fibre test methods have 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.
1 Scope

This part of IEC 60794 describes test procedures to evaluates the degree of permanent twist in an uncabled ribbon or in a cabled optical fibre ribbon.

This document applies to optical fibre ribbons in optical cables for use with telecommunication equipment and devices employing similar techniques, and to optical fibre ribbons in cables having a combination of both optical fibres and electrical conductors.

This document is not applicable to partially-bonded ribbons. The method for partially-bonded ribbons is under consideration.

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

NOTE The environmental testing of optical fibre ribbon would be valuable for some applications. Useful information about suitable test methods can be found in the optical fibre standards IEC 60793-1-50, IEC 60793-1-51, IEC 60793-1-52, and IEC 60793-1-53.

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