

INTERNATIONAL STANDARD



**Optical fibre cables –
Part 1-23: Generic specification – Basic optical cable test procedures – Cable
element test methods**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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CONTENTS

FOREWORD.....	4
1 Scope and object.....	6
2 Normative references	6
3 Method G1: Bend test for cable elements	6
3.1 Object	6
3.2 Sample.....	6
3.3 Apparatus.....	6
3.4 Procedure	7
3.5 Requirements	7
3.6 Details to be specified	7
4 Method G2: Ribbon dimensions and geometry – Visual method	7
4.1 Object	7
4.2 Sample.....	7
4.3 Apparatus.....	7
4.4 Procedure	7
4.4.1 General	7
4.4.2 Method 1	7
4.4.3 Method 2	8
4.5 Requirements	8
4.6 Details to be specified	8
4.7 Definitions of ribbon dimensions and geometry.....	8
4.7.1 General	8
4.7.2 Width and height	8
4.7.3 Basis line.....	8
4.7.4 Fibre alignment.....	8
5 Method G3: Ribbon dimensions – Aperture gauge	9
5.1 Object	9
5.2 Sample.....	9
5.3 Apparatus.....	9
5.4 Procedure	9
5.5 Requirement.....	10
5.6 Details to be specified	10
6 Method G4: Ribbon dimensions – Dial gauge (Test deleted).....	10
7 Method G5: Ribbon tear (separability)	10
7.1 Object	10
7.2 Sample.....	10
7.3 Apparatus.....	11
7.4 Procedure	11
7.5 Requirements	11
7.6 Details to be specified	11
8 Method G6: Ribbon torsion	12
8.1 Object	12
8.2 Sample.....	12
8.3 Apparatus.....	12
8.4 Procedure	12
8.5 Requirements	12

8.6	Details to be specified	12
9	Method G7: Tube kinking.....	13
9.1	Object	13
9.2	Sample.....	13
9.3	Apparatus.....	13
9.4	Procedure	14
9.5	Requirements	14
9.6	Details to be specified	15
10	Method G8: Ribbon residual twist test	15
10.1	Object	15
10.2	Sample.....	15
10.3	Apparatus.....	15
10.4	Procedure	16
10.5	Requirements	16
10.6	Details to be specified	16
	Figure 1 – Cross-sectional drawing illustrating fibre ribbon geometry	9
	Figure 2 – Aperture gauge	10
	Figure 3 – Sample preparation.....	11
	Figure 4 – Separability procedure	12
	Figure 5 – Torsion test.....	13
	Figure 6 – Tube kinking test.....	15
	Table 1 – Examples of test apparatus dimensions:.....	14

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OPTICAL FIBRE CABLES –**Part 1-23: Generic specification –
Basic optical cable test procedures –
Cable element test methods**

FOREWORD

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International Standard IEC 60794-1-23 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

This edition of IEC 60794-1-23 cancels and replaces the cable elements tests methods part of the second edition of IEC 60794-1-2 published in 2003. It constitutes a technical revision.

The main change with respect to the previous edition is that it has been decided to split the second edition of IEC 60794-1-2 into six new documents:

- IEC 60794-1-2, *Optical fibre cables – Part 1-2: Generic specification – Basic optical cable test procedures*
- IEC 60794-1-20, *Optical fibre cables – Part 1-20: Generic specification – Basic optical cable test procedures – General & Definitions*
- IEC 60794-1-21, *Optical fibre cables – Part 1-21: Generic specification – Basic optical cable test procedures – Mechanical tests methods*

- IEC 60794-1-22, *Optical fibre cables – Part 1-22: Generic specification – Basic optical cable test procedures – Environmental tests methods*
- IEC 60794-1-23, *Optical fibre cables – Part 1-23: Generic specification – Basic optical cable test procedures – Cable elements tests methods*
- IEC 60794-1-24, *Optical fibre cables – Part 1-24: Generic specification – Basic optical cable test procedures – Electrical tests methods*

The text of this standard is based on the following documents:

FDIS	Report on voting
86A/1451/FDIS	86A/1469/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the 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 publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this standard may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

OPTICAL FIBRE CABLES –

Part 1-23: Generic specification – Basic optical cable test procedures – Cable element test methods

1 Scope and object

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.

The object of this part of IEC 60794 is to define test procedures to be used in establishing uniform requirements for the geometrical, material, mechanical, environmental properties of optical fibre cable elements.

Throughout the document the wording “optical cable” may also include optical fibre units, microduct fibre units, etc.

General requirements and definitions are given in IEC 60794-1-20 and a complete reference guide to test method of all types in the IEC 60794-1-2.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60793-1-40, *Optical fibres – Part 1-40: Measurement methods and test procedures – Attenuation*

IEC 60794-3:2001, *Optical fibre cables – Part 3: Sectional specification – Outdoor cables*