

INTERNATIONAL STANDARD

**Optical fibre cables -
Part 1-210: Generic specification - Basic optical cable test procedures -
Environmental test methods - Underwater cable resistance to hydrostatic
pressure, Method F10**

CONTENTS

FOREWORD	2
INTRODUCTION	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Object	5
4.1 General	5
4.2 F10A: radial hydrostatic pressure	5
4.3 F10B: longitudinal hydrostatic pressure	5
4.3.1 General	5
4.3.2 F10B.1	6
4.3.3 F10B.2	6
4.4 F10C: longitudinal hydrostatic pressure for cables through vessel	6
5 Sample	6
6 Apparatus	6
6.1 General	6
6.2 Pressure vessel	6
6.3 Water	6
6.4 Optical attenuation measuring apparatus	7
6.5 Detecting devices	7
7 Procedure	7
7.1 General	7
7.2 Procedure for F10A	7
7.3 Procedure for F10B	8
7.3.1 Procedure for F10B.1	8
7.3.2 Procedure for F10B.2	9
7.4 Procedure for F10C	10
8 Requirements	11
9 Details to be specified	11
10 Details to be reported	12
Bibliography	13
Figure 1 – Test set-up of F10A	8
Figure 2 – Test set-up of F10B.1	9
Figure 3 – Test set-up of F10B.2	10
Figure 4 – Test set-up of F10C	11

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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IEC 60794-1-210 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 F10 of the second edition of IEC 60794-1-22 published in 2017. This edition constitutes a technical revision.

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

- a) modification of original method F10 which becomes F10A with modification of the detailed content of apparatus, procedure and details to be specified and addition of set-up;
- b) addition of two test methods F10B and F10C to cover the different test object and procedure.

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

Draft	Report on voting
86A/2688/FDIS	86A/2698/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

This document cancels and replaces method F10 of IEC 60794-1-22:2017, which will be withdrawn. It includes an editorial revision, based on the new structure and numbering system for optical fibre cable test methods. Additionally, technical changes were implemented. The environmental tests contained in IEC 60794-1-22:2017 will be individually numbered in the IEC 60794-1-2xx 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 IEC60794-1-2.

The numbering of this test method continues the F-series numbering sequence of IEC 60794-1-22:2017.

1 Scope

This part of IEC 60794-1 describes test procedures used to establish uniform requirements for optical fibre cables for the environmental property - underwater cable resistance to hydrostatic pressure.

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.

See IEC 60794-1-2 for a reference guide to test methods of all types and for general requirements.

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 fibre cables - Part 1-1: General*

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

Bibliography

IEC 60794-1-2, *Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures – General guidance*

IEC 60794-1-22:2017, *Optical fibre cables - Part 1-22: Generic specification - Basic optical cable test procedures - Environmental test methods*

ITU-T G.976:2014, *Test methods applicable to optical fibre submarine cable system*
