

Optical fibre cables - Part 1-208: Generic specification  
- Basic optical cable test procedures - Environmental  
test methods - Pneumatic resistance, method F8

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN IEC 60794-1-208:2025 sisaldab Euroopa standardi EN IEC 60794-1-208:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 06.06.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN IEC 60794-1-208:2025 consists of the English text of the European standard EN IEC 60794-1-208:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 06.06.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

Optical fibre cables - Part 1-208: Generic specification - Basic  
optical cable test procedures - Environmental test methods -  
Pneumatic resistance, Method F8  
(IEC 60794-1-208:2025)

Câbles à fibres optiques - Partie 1-208: Spécification  
générique - Procédures fondamentales d'essais des câbles  
optiques - Méthodes d'essais d'environnement - Résistance  
pneumatique, Méthode F8  
(IEC 60794-1-208:2025)

Lichtwellenleiterkabel - Teil 1-208: Fachgrundspezifikation -  
Grundlegende Prüfverfahren für Lichtwellenleiterkabel -  
Umweltprüfverfahren - Pneumatische Beständigkeit,  
Verfahren F8  
(IEC 60794-1-208:2025)

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Comité Européen de Normalisation Electrotechnique  
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## European foreword

The text of document 86A/2539/FDIS, future edition 1 of IEC 60794-1-208, prepared by SC 86A "Fibres and cables" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60794-1-208:2025.

The following dates are fixed:

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## NORME INTERNATIONALE

**Optical fibre cables –  
Part 1-208: Generic specification – Basic optical cable test procedures –  
Environmental test methods – Pneumatic resistance, Method F8**

**Câbles à fibres optiques –  
Partie 1-208: Spécification générique – Procédures fondamentales d'essais des  
câbles optiques – Méthodes d'essais d'environnement – Résistance  
pneumatique, Méthode F8**



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# NORME INTERNATIONALE

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Environmental test methods – Pneumatic resistance, Method F8**

**Câbles à fibres optiques –  
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câbles optiques – Méthodes d'essais d'environnement – Résistance  
pneumatique, Méthode F8**

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## CONTENTS

FOREWORD.....	3
INTRODUCTION .....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions.....	6
4 General requirements.....	6
5 Method F8: Pneumatic resistance.....	6
5.1 Object.....	6
5.2 Sample.....	7
5.3 Apparatus.....	7
5.4 Procedure.....	7
5.5 Requirements.....	7
5.6 Details to be specified.....	7
5.7 Details to be reported.....	8

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## OPTICAL FIBRE CABLES –

**Part 1-208: Generic specification – Basic optical cable test procedures –  
Environmental test methods – Pneumatic resistance, Method F8**

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IEC 60794-1-208 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 60794-1-208 cancels and replaces method F8 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) the form of the formula for pneumatic resistance is modified for ease of calculation with test pressures other than 62 kPa;
- b) details to be reported are added.

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

Draft	Report on voting
86A/2539/FDIS	86A/2556/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://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.

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- reconfirmed,
- withdrawn, or
- revised.

## INTRODUCTION

The environmental test contained in IEC 60794-1-22: 2017 will now 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 IEC 60794-1-2.

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## OPTICAL FIBRE CABLES –

### Part 1-208: Generic specification – Basic optical cable test procedures – Environmental test methods – Pneumatic resistance, Method F8

#### 1 Scope

This part of IEC 60794 describes test procedures to be used in establishing uniform requirements for optical fibre cables for the pneumatic resistance environmental property, for unfilled cables which are protected by gas pressurization.

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.

#### 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*

#### 3 Terms and definitions

No terms and definitions are listed in this document.

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

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

#### 4 General requirements

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

#### 5 Method F8: Pneumatic resistance

##### 5.1 Object

This test applies only to unfilled cables which are protected by gas pressurization. The purpose is to measure the pneumatic resistance to gas flow of such cables. The pneumatic resistance of pressurized cables is required to ensure adequate functioning of the gas pressurization process and systems. The results obtained using dry air can be used to calculate the performance using other gases.