

Optical fibre cables - Part 1-216: Generic specification
- Basic optical cable test procedures - Environmental
test methods - Compound flow (drip), method F16

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 60794-1-216:2025 sisaldab Euroopa standardi EN IEC 60794-1-216:2025 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 60794-1-216:2025 consists of the English text of the European standard EN IEC 60794-1-216:2025.
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English Version

Optical fibre cables - Part 1-216: Generic specification - Basic
optical cable test procedures - Environmental test methods -
Compound flow (drip), Method F16
(IEC 60794-1-216:2025)

Câbles à fibres optiques - Partie 1-216: Spécification
générique - Procédures fondamentales d'essais des câbles
optiques - Méthodes d'essais d'environnement -
Écoulement (égouttement) des matériaux de remplissage,
méthode F16
(IEC 60794-1-216:2025)

Lichtwellenleiterkabel - Teil 1-216: Fachgrundspezifikation -
Grundlegende Prüfverfahren für Lichtwellenleiterkabel -
Umweltprüfverfahren - Zusammengesetzter Durchfluss
(Abtropfen), Verfahren F16
(IEC 60794-1-216:2025)

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Comité Européen de Normalisation Electrotechnique
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European foreword

The text of document 86A/2544/FDIS, future edition 1 of IEC 60794-1-216, 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 60794-1-216:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-06-30 level by publication of an identical national standard or by endorsement
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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Optical fibre cables –

**Part 1-216: Generic specification – Basic optical cable test procedures –
Environmental test methods – Compound flow (drip), Method F16**

Câbles à fibres optiques –

**Partie 1-216: Spécification générique – Procédures fondamentales d'essais des
câbles optiques – Méthodes d'essais d'environnement – Écoulement
(égouttement) des matériaux de remplissage, méthode F16**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 1-216: Generic specification – Basic optical cable test procedures –
Environmental test methods – Compound flow (drip), Method F16**

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IEC 60794-1-216 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 the second edition of IEC 60794-1-22:2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC 60794-1-22:2017:

- a) Addition of new Clause 10.

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

Draft	Report on voting
86A/2544/FDIS	86A/2555/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 F16 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 IEC 60794-1-2.

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

OPTICAL FIBRE CABLES –

Part 1-216: Generic specification – Basic optical cable test procedures – Environmental test methods – Compound flow (drip), Method F16

1 Scope

This part of IEC 60794 defines test procedures to ensure the filling and flooding compounds will not flow from a filled or flooded fibre optic cable, at stated temperatures.

NOTE The environmental testing of optical cable would be valuable for some applications. Useful information about suitable test methods can be found in the optical fibre standards IEC 60794-1-2.

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

For the purposes of this document, the terms and definitions given in 60794-1-2 apply.

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 guide to test methods of all types.

5 Sample

5.1 Number and type of samples

Unless otherwise specified in the detail specification, prepare two cable samples for testing from each cable sample to be evaluated. Each cable sample shall be representative of the cable type specified by the detail specification.