



BSI Standards Publication

Optical fibre cables

Part 1-217: Generic specification — Basic optical cable test procedures —
Environmental test methods — Cable shrinkage (fibre protrusion), Method F17

National foreword

This British Standard is the UK implementation of EN IEC 60794-1-217:2024. It is identical to IEC 60794-1-217:2024. Together with BS EN IEC 60794-1-212:2024, it partially supersedes BS EN IEC 60794-1-22:2018.

The UK participation in its preparation was entrusted to Technical Committee GEL/86/1, Optical fibres and cables.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Amendments/corrigenda issued since publication

Date	Text affected
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English Version

Optical fibre cables - Part 1-217: Generic specification - Basic
optical cable test procedures - Environmental test methods -
Cable shrinkage (fibre protrusion), Method F17
(IEC 60794-1-217:2024)

Câbles à fibres optiques - Partie 1-217: Spécification
générique - Procédures fondamentales d'essais des câbles
optiques - Méthodes d'essais d'environnement - Rétraction
de câble (excroissance de la fibre), méthode F17
(IEC 60794-1-217:2024)

Lichtwellenleiterkabel - Teil 1-217: Fachgrundspezifikation -
Grundlegende Prüfverfahren für optische Kabel -
Umweltprüfverfahren - Kabelschrumpfung
(Faserüberstand), Verfahren F17
(IEC 60794-1-217:2024)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 86A/2358/CDV, future edition 1 of IEC 60794-1-217, 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 60794-1-217:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-02-08 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-05-08 document have to be withdrawn

This document partially supersedes EN IEC 60794-1-22:2018 and all of its amendments and corrigenda (if any).

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Endorsement notice

The text of the International Standard IEC 60794-1-217:2024 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60794-1-22:2017	NOTE	Approved as EN IEC 60794-1-22:2018 (not modified)
IEC 60794-1-211	NOTE	Approved as EN IEC 60794-1-211
IEC 60794-1-212	NOTE	Approved as EN IEC 60794-1-212

Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60794-1-1	-	Optical fibre cables - Part 1-1: Generic specification - General	EN IEC 60794-1-1	-
IEC 60794-1-2	-	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance	EN IEC 60794-1-2	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 1-217: Generic specification –
Basic optical cable test procedures – Environmental test methods –
Cable shrinkage (fibre protrusion), method F17**

FOREWORD

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IEC 60794-1-217 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This document partially replaces 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) added clarification in the objective that the purpose of this test procedure is to measure the permanent fibre protrusion of cables without rigid strength members;
- b) replaced the reference to method F1 for the apparatus with a detailed description for the temperature chamber and temperature sensing device as done in IEC 60794-1-211;

- c) added a measuring device in the subclause for apparatus;
- d) added conditioning before cutting the cable sample as done in IEC 60794-1-211
- e) added all required steps in the subclause for temperature cycling as well as the table for the minimum soak time and the figure for the cycle procedure, and removed the reference to IEC 60794-1-22, method F1;
- f) improved the figures and added a figure for preparation of the cable sample;
- g) added the informative Annex A for the test procedure recommended for cables with rigid strength members.

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

Draft	Report on voting
86A/2358/CDV	86A/2405/RVC

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.

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