

Fibre optic interconnecting devices and passive components - Performance standard - Part 111-08:  
Sealed closures for Category G - Ground

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 61753-111-08:2021 sisaldab Euroopa standardi EN IEC 61753-111-08:2021 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 61753-111-08:2021 consists of the English text of the European standard EN IEC 61753-111-08:2021.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 21.05.2021.	Date of Availability of the European standard is 21.05.2021.
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ICS 33.180.20

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English Version

**Fibre optic interconnecting devices and passive components -  
Performance standard - Part 111-08: Sealed closures for  
Category G - Ground  
(IEC 61753-111-08:2021)**

Dispositifs d'interconnexion et composants passifs  
fibroniques - Norme de performance - Partie 111-8: Boîtiers  
scellés pour catégorie G - Au niveau du sol  
(IEC 61753-111-08:2021)

Lichtwellenleiter - Verbindungselemente und passive  
Bauteile - Betriebsverhalten - Teil 111-08: Druckdichte  
Muffen für die Kategorie G - Bodenumgebung  
(IEC 61753-111-08:2021)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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## European foreword

The text of document 86B/4426/FDIS, future edition 1 of IEC 61753-111-08, prepared by SC 86B "Fibre optic interconnecting devices and passive components" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61753-111-08:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-02-12
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-05-12

This document supersedes EN 61753-111-8:2010 and all of its amendments and corrigenda (if any).

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## Endorsement notice

The text of the International Standard IEC 61753-111-08:2021 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 standards indicated:

IEC 60068-1	NOTE	Harmonized as EN 60068-1
IEC 60721-3-1	NOTE	Harmonized as EN IEC 60721-3-1
IEC 60721-3-2	NOTE	Harmonized as EN IEC 60721-3-2
IEC 60793-2	NOTE	Harmonized as EN IEC 60793-2
IEC 60793-2-10	NOTE	Harmonized as EN IEC 60793-2-10
IEC 60794-1-2	NOTE	Harmonized as EN IEC 60794-1-2
IEC 60794-2	NOTE	Harmonized as EN 60794-2
IEC 60794-3	NOTE	Harmonized as EN 60794-3
IEC 61300 (series)	NOTE	Harmonized as EN 61300 (series)
IEC 61753-111 (series)	NOTE	Harmonized as EN 61753-111 (series)
IEC 61753-111-8	NOTE	Harmonized as EN 61753-111-8
IEC 62005 (series)	NOTE	Harmonized as EN IEC 62005 (series)

## 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.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-10	-	Environmental testing - Part 2-10: Tests - Test J and guidance: Mould growth	EN 60068-2-10	-
IEC 60793-2-50	-	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN IEC 60793-2-50	-
IEC 61300-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance	EN 61300-1	-
IEC 61300-2-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal)	EN 61300-2-1	-
IEC 61300-2-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre or cable retention	EN IEC 61300-2-4	-
IEC 61300-2-5	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests - Torsion	EN 61300-2-5	-
IEC 61300-2-9	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests - Shock	EN 61300-2-9	-
IEC 61300-2-10	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-10: Tests - Crush and load resistance	EN IEC 61300-2-10	-
IEC 61300-2-11	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-11: Tests - Axial compression	EN 61300-2-11	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61300-2-12	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-12: Tests - Impact	EN 61300-2-12	-
IEC 61300-2-22	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature	-	-
IEC 61300-2-23	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-23: Tests - Sealing for non-pressurized closures of fibre optic devices	EN 61300-2-23	-
IEC 61300-2-26	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist	EN 61300-2-26	-
IEC 61300-2-33	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-33: Tests - Assembly and disassembly of fibre optic mechanical splices, fibre management systems and closures	EN 61300-2-33	-
IEC 61300-2-34	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-34: Tests - Resistance to solvents and contaminating fluids of interconnecting components and closures	EN 61300-2-34	-
IEC 61300-2-37	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-37: Tests - Cable bending for fibre optic closures	EN 61300-2-37	-
IEC 61300-2-38	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-38: Tests - Sealing for pressurized fibre optic closures	EN 61300-2-38	-
IEC 61300-3-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination	EN 61300-3-1	-
IEC 61300-3-3	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-3: Examinations and measurements - Active monitoring of changes in attenuation and return loss	EN 61300-3-3	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61300-3-28	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-28: Examinations and measurements - Transient loss	EN 61300-3-28	-
IEC 61753-1	2018	Fibre optic interconnecting devices and passive components - Performance standard - Part 1: General and guidance	EN IEC 61753-1	-
IEC 61756-1	2019	Fibre optic interconnecting devices and passive components - Interface standard for fibre management systems - Part 1: General and guidance	EN IEC 61756-1	-
ISO 4892-3	-	Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps	EN ISO 4892-3	-

# INTERNATIONAL STANDARD



**Fibre optic interconnecting devices and passive components – Performance standard –  
Part 111-08: Sealed closures for category G – Ground**





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# INTERNATIONAL STANDARD



**Fibre optic interconnecting devices and passive components – Performance standard –  
Part 111-08: Sealed closures for category G – Ground**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

ICS 33.180.20

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING  
DEVICES AND PASSIVE COMPONENTS –  
PERFORMANCE STANDARD –****Part 111-08: Sealed closures for category G – Ground**

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IEC 61753-111-08 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics. It is an International Standard.

This first edition cancels and replaces IEC 61753-111-8 published in 2009. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC 61753-111-8:

- a) terms and definitions updated according to IEC 61753-1:2018 and IEC 61756-1:2019;
- b) test severities updated according to IEC 61753-1:2018;
- c) sealing tests are done with 20 kPa overpressure;
- d) pass-fail criterion of pressure loss during test added to mechanical sealing tests;
- e) vibration sealing test changed to 10 Hz, 3 mm amplitude and 1 000 000 cycles;

- f) reduced loads added in cable retention test for small diameter cables and tubes;
- g) reduced loads for cable axial compression test for small diameter cables;
- h) the duration of the cycles in torsion and bending test is added;
- i) free fall test removed (is covered by the optical shock test);
- j) crush resistance test of 1 000 N for 10 min is added;
- k) assembly and disassembly test: duration reduced to 5 cycles;
- l) resistance to solvents and contaminating fluids: added immersion in diesel with duration of 1 h and 24 h drying time and added immersion in petroleum jelly for 5 days;
- m) resistance to stress cracking solvents added for 5 days;
- n) duration of the change of temperature reduced to 12 cycles;
- o) water immersion test at 1 m for 7 days added.

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

FDIS	Report on voting
86B/4426/FDIS	86B/4455/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 the 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/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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