

STN	Optovláknové spájacie prvky a pasívne súčiastky Základné skúšobné a meracie postupy Časť 1: Všeobecne a návod Zmena A1	STN EN IEC 61300-1/A1 35 9252
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Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/24

STN EN IEC 61300-1 z augusta 2022 sa bez tejto zmeny A1 môže používať do 22. 5. 2027.

Obsahuje: EN IEC 61300-1:2022/A1:2024, IEC 61300-1:2022/AMD1:2024

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Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD

EN IEC 61300-1:2022/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2024

ICS 33.180.20

English Version

**Fibre optic interconnecting devices and passive components -
Basic test and measurement procedures - Part 1: General and
guidance
(IEC 61300-1:2022/AMD1:2024)**

Dispositifs d'interconnexion et composants passifs
fibroniques - Procédures fondamentales d'essais et de
mesures - Partie 1: Généralités et recommandations
(IEC 61300-1:2022/AMD1:2024)

Lichtwellenleiter - Verbindungselemente und passive
Bauteile - Grundlegende Prüf- und Messverfahren - Teil 1:
Allgemeines und Leitfaden
(IEC 61300-1:2022/AMD1:2024)

This amendment A1 modifies the European Standard EN IEC 61300-1:2022; it was approved by CENELEC on 2024-05-22. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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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

EN IEC 61300-1:2022/A1:2024 (E)**European foreword**

The text of document 86B/4865/FDIS, future IEC 61300-1/AMD1, 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 61300-1:2022/A1:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-02-22 level by publication of an identical national standard or by endorsement
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In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 61753 series	NOTE	Approved as EN IEC 61753 series
IEC 61753-111 series	NOTE	Approved as EN IEC 61753-111 series
IEC 62005 series	NOTE	Approved as EN IEC 62005 series



IEC 61300-1

Edition 5.0 2024-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –
Part 1: General and guidance**

**Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures –
Partie 1: Généralités et recommandations**



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Edition 5.0 2024-04

INTERNATIONAL STANDARD

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AMENDMENT 1
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Part 1: General and guidance**

**Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures –
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING
DEVICES AND PASSIVE COMPONENTS –
BASIC TEST AND MEASUREMENT PROCEDURES –****Part 1: General and guidance****AMENDMENT 1****FOREWORD**

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Amendment 1 to IEC 61300-1:2022 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

The text of this Amendment is based on the following documents:

Draft	Report on voting
86B/4865/FDIS	86B/4900/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

IEC 61300-1:2022/AMD1:2024
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The language used for the development of this Amendment 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/.

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- reconfirmed,
- withdrawn, or
- revised.

Add the following new subclause:

4.2.3 Requirements for test sample configuration in environmental test chamber

Annex C defines example configuration of the test sample, and specifies the fibre, pigtail, or cable length inside the environmental test chamber for different test sample types.

Add the following new Annex C

Annex C (normative)

Test sample configuration in environmental test chamber

C.1 General

Annex C defines the configurations of the test samples and the fibre, pigtail, or cable lengths inside the environmental test chamber for the different test sample types, such as:

- pigtail,
- hardened connector pigtail,
- patchcord,
- non-connectorized passive component,
- connectorized passive component,
- plug-receptacle style passive component,
- fibre management system,
- protective housing without looped cable,
- protective housing with looped cable,
- combined protective housing test sample with looped cable,
- mechanical splice or fusion splice.

An environmental test chamber is used for temperature cycling, dry heat, cold, damp heat, and similar tests.

The test sample configuration and the fibre, pigtail, or cable lengths inside the environmental test chamber shall be as given in clauses C.2 to C.12, unless otherwise specified in the relevant IEC 61753 performance standard and IEC 62005 reliability document.

The method of storage shall not affect the optical fibre with respect to expansion or contraction. Tight coiling on a rigid cable reel shall not be used. The overlength of the fibres, pigtails, or cables of the sample inside the chamber shall be routed in large diameter loose coils or bends. The diameter of the coils or bends shall be larger than the minimum bending diameter specified for the cable in service. The fibre, pigtail, or cable coils shall be loosely fixed in a way that the cable elements are not under stress and are free to move.

The test sample or the additional pigtails should have unterminated leads of sufficient length to allow termination (splicing, connecting, etc.) to the optical monitoring equipment located outside of the environmental test chamber. The deployment of the fibre, pigtail, or cable outside the chamber shall not affect the results.

The configurations are shown with one incoming and one outgoing fibre, pigtail, or cable of a test sample in Figure C.1 to Figure C.12 for illustrative purposes. Different types of test samples exist having one or more incoming and one or more outgoing fibres, pigtails, or cables, or even an incoming fibre, pigtail, or cable only. The test sample configurations and length specifications for such test samples shall be applied analogously.

When several test samples are tested in the same chamber, the test samples shall be placed in such a way that they do not influence each other and do not exert any load on other test samples. The test samples can be placed side-by-side or on different height levels. Care should be taken to ensure that either the specified temperature or humidity, or both, is present for all samples. The test sample configuration and length specification for multiple test samples shall be applied analogously.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN