

SLOVENSKI STANDARD

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Optični spojni elementi in pasivne komponente - Osnovni preskusni in merilni postopki - 2-24. del: Preskusi - Presejalno preskušanje keramične poravnalne razcepne obojke s preobremenjevanjem (IEC 61300-2-24:2010)

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-24: Tests - Screen testing of ceramic alignment split sleeve by stress application (IEC 61300-2-24:2010)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Grundlegende Prüf- und Messverfahren - Teil 2-24: Prüfungen - Sortierprüfung keramischer Zentrierhülsen mit Beanspruchung (IEC 61300-2-24:2010)

Dispositifs d'interconnexion et composants passifs à fibres optiques - Méthodes fondamentales d'essais et de mesures - Partie 2-24: Essais - Essai de sélection du manchon fendu d'alignement en céramique par l'application de contrainte (CEI 61300-2-24:2010)

Ta slovenski standard je istoveten z: EN 61300-2-24:2010

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61300-2-24

July 2010

ICS 33.180.20

Supersedes EN 61300-2-24:2000

English version

**Fibre optic interconnecting devices and passive components -
Basic test and measurement procedures -
Part 2-24: Tests -
Screen testing of ceramic alignment split sleeve by stress application
(IEC 61300-2-24:2010)**

Dispositifs d'interconnexion et composants
passifs à fibres optiques -
Méthodes fondamentales d'essais
et de mesures -
Partie 2-24: Essais -
Essai de sélection du manchon fendu
d'alignement en céramique
par l'application de contrainte
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Lichtwellenleiter -
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Grundlegende Prüf- und Messverfahren -
Teil 2-24: Prüfungen -
Sortierprüfung keramischer Zentrierhülsen
mit Beanspruchung
(IEC 61300-2-24:2010)

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CENELEC

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

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Foreword

The text of document 86B/2967/FDIS, future edition 2 of IEC 61300-2-24, 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 was approved by CENELEC as EN 61300-2-24 on 2010-07-01.

This European Standard supersedes EN 61300-2-24:2000.

EN 61300-2-24:2010 constitutes a technical revision. Specific technical changes involve the addition of a dimension example of the reference gauge and the plate for the ceramic sleeve and a commonly used ceramic alignment sleeve for the 1,25 mm ceramic sleeve.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2011-04-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2011-07-01

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Endorsement notice

The text of the International Standard IEC 61300-2-24:2010 was approved by CENELEC as a European Standard without any modification. [SIST EN 61300-2-24:2010](https://standards.iteh.ai/catalog/standards/sist/41d7149-c538-4803-89cb-e6d5a8aad49d/sist-en-61300-2-24-2010)

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INTERNATIONAL STANDARD



**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –
Part 2-24: Tests – Screen testing of ceramic alignment split sleeve by stress application**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING
DEVICES AND PASSIVE COMPONENTS –
BASIC TEST AND MEASUREMENT PROCEDURES –****Part 2-24: Tests –
Screen testing of ceramic alignment
split sleeve by stress application**

FOREWORD

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International Standard IEC 61300-2-24 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This second edition replaces the first edition published in 1999. This second edition constitutes a technical revision. Specific technical changes involve the addition of a dimension example of the reference gauge and the plate for the ceramic sleeve and a commonly used ceramic alignment sleeve for the 1,25 mm ceramic sleeve.

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

| | |
|---------------|------------------|
| FDIS | Report on voting |
| 86B/2967/FDIS | 86B/3014/RVD |

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of IEC 61300 series, published under the general title, *Fibre optic interconnecting and passive components – Basic test and measurement procedures*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

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A bilingual version of this publication may be issued at a later date.

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –

Part 2-24: Tests – Screen testing of ceramic alignment split sleeve by stress application

1 Scope

The purpose of this part of IEC 61300 is to identify weaknesses in a ceramic alignment split sleeve which could lead to early failure of the component.

2 General description

Ceramic alignment sleeves are important components often used in the adaptor of plug-adaptor-plug optical connector sets. By using the method described, the component is subjected to a proof stress greater than would be experienced under normal service conditions. This enables weak products to be screened out.

3 Apparatus

The apparatus and arrangement necessary to perform this screening procedure are shown in Figure 1. The material needed consists of the following:

- a) a reference gauge made of ceramic with a sleeve-holding section, a tapered section and a stress-applying section. The diameter of each section is dependent on the dimensions of the product being screened. The length of the sleeve-holding section and the stress-applying section should be greater than the component being tested;
- b) plates A and B, each having a clearance hole in the centre to allow the plate to move a sample of a ceramic alignment split sleeve on the reference gauge.