

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**

The European Standard EN 61300-2-24:2000 has the status of a
British Standard

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National foreword

This British Standard is the official English language version of EN 61300-2-24:2000. It is identical with IEC 61300-2-24:1999.

The UK participation in its preparation was entrusted by Technical Committee GEL/86, Fibre optics, to Subcommittee GEL/86/2, Interconnecting devices and passive components, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Summary of pages

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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
(IEC 61300-2-24:1999)**

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 61300-2-24:1999)

Lichtwellenleiter - Verbindungselemente
und passive Bauteile - Grundlegende
Prüf- und Meßverfahren
Teil 2-24: Prüfungen - Sortierprüfung
keramischer Zentrierhülsen mit
Beanspruchung
(IEC 61300-2-24:1999)

This European Standard was approved by CENELEC on 2000-01-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

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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/1242/FDIS, future edition 1 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 2000-01-01.

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) 2000-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2003-01-01

Endorsement notice

The text of the International Standard IEC 61300-2-24:1999 was approved by CENELEC as a European Standard without any modification.

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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 and object

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.