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INTERNATIONAL STANDARD



**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –
Part 2-38: Tests – Sealing for ~~pressurized~~ fibre optic sealed closures and hardened connectors using air pressure**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 2-38: Tests – Sealing for ~~pressurized~~ fibre optic sealed closures and hardened connectors using air pressure

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IEC 61300-2-38 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This third edition cancels and replaces the second edition published in 2006. It constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) addition of sealed hardened connectors;
- b) recommended test severities from IEC 61753-1;
- c) test configurations for hardened connectors and adaptors.

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

Draft	Report on voting
86B/4768/FDIS	86B/4783/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 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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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –

Part 2-38: Tests – Sealing for ~~pressurized~~ fibre optic sealed closures and hardened connectors using air pressure

1 Scope

This part of IEC 61300 presents ~~a two~~ methods for testing the sealing performance of a fibre optic sealed closure and ~~sealing system of the closures, when required by the relevant specification~~ hardened connector using air pressure.

2 Normative references

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.

IEC 61300-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 1: General and guidance*

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –
Part 2-38: Tests – Sealing for fibre optic sealed closures and hardened connectors using air pressure**

**Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures –
Partie 2-38: Essais – Étanchéité des boîtiers scellés fibroniques et des connecteurs durcis fibroniques au moyen d'air comprimé**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –**Part 2-38: Tests – Sealing for fibre optic sealed closures and hardened connectors using air pressure**

FOREWORD

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

Part 2-38: Tests – Sealing for fibre optic sealed closures and hardened connectors using air pressure

1 Scope

This part of IEC 61300 presents two methods for testing the sealing performance of a fibre optic sealed closure and hardened connector using air pressure.

2 Normative references

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.

IEC 61300-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 1: General and guidance*

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

**DISPOSITIFS D'INTERCONNEXION ET COMPOSANTS PASSIFS
FIBRONIQUES – PROCÉDURES FONDAMENTALES D'ESSAIS ET
DE MESURES –****Partie 2-38: Essais – Étanchéité des boîtiers scellés fibroniques et
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L'IEC 61300-2-38 a été établie par le sous-comité 86B: Dispositifs d'interconnexion et composants passifs à fibres optiques, du comité d'études 86 de l'IEC: Fibres optiques.

Cette troisième édition annule et remplace la deuxième édition parue en 2006. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) l'ajout de connecteurs durcis étanches;
- b) les sévérités d'essai recommandées de l'IEC 61753-1;
- c) les configurations d'essai des connecteurs durcis et des raccords durcis.

Le texte de cette norme est issu des documents suivants:

Projet	Rapport de vote
86B/4768/FDIS	86B/4783/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Le présent document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous www.iec.ch/members_experts/refdocs. Les principaux types de documents développés par l'IEC sont décrits plus en détail sous www.iec.ch/publications.

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DISPOSITIFS D'INTERCONNEXION ET COMPOSANTS PASSIFS FIBRONIQUES – PROCÉDURES FONDAMENTALES D'ESSAIS ET DE MESURES –

Partie 2-38: Essais – Étanchéité des boîtiers scellés fibroniques et des connecteurs durcis fibroniques au moyen d'air comprimé

1 Domaine d'application

La présente partie de l'IEC 61300 décrit deux méthodes d'essai en vue de déterminer la performance d'étanchéité d'un boîtier scellé fibronique et d'un connecteur durci fibronique au moyen d'air comprimé.

2 Références normatives

Les documents suivants sont cités dans le texte de sorte qu'ils constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 61300-1, *Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures – Partie 1: Généralités et recommandations*