



IEC 61300-2-34

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COMMENTED VERSION

# INTERNATIONAL STANDARD



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**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 2-34: Tests – Resistance to solvents and contaminating fluids**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### 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~~

#### FOREWORD

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**This commented version (CMV) of the official standard IEC 61300-2-34:2024 edition 3.0 allows the user to identify the changes made to the previous IEC 61300-2-34:2009 edition 2.0. Furthermore, comments from IEC TC SC 86B experts are provided to explain the reasons of the most relevant changes, or to clarify any part of the content.**

**A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text. Experts' comments are identified by a blue-background number. Mouse over a number to display a pop-up note with the comment.**

**This publication contains the CMV and the official standard. The full list of comments is available at the end of the CMV.**

IEC 61300-2-34 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 third edition cancels and replaces the second edition published in 2009. This edition constitutes a technical revision.

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

- a) revision of the title;
- b) classification of test procedure and applicable fluids, bringing the document in line with IEC 61753-1;
- c) severities of test.

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

Draft	Report on voting
86B/4879/FDIS	86B/4924/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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

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## 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~~

#### 1 Scope

The purpose of this part of IEC 61300 is for testing the resistance to solvents and contaminating fluids on fibre optic interconnecting devices, passive components and ~~closures~~ protective housings, and their functionality. ~~The object of this test is to define a standard test method to assess the effects of short term exposure to fluids and lubricants on fibre optic interconnecting components and closure.~~ **1**

#### 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*

IEC 61300-2-38, *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*

IEC 61300-3-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-1: Examinations and measurements – Visual examination*

IEC 61300-3-4, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-4: Examinations and measurements – Attenuation*

IEC 61300-3-6, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-6: Examinations and measurements – Return loss*

IEC 61753 (all parts), *Fibre optic interconnecting devices and passive components – Performance standards*

IEC 62005 (all parts), *Fibre optic interconnecting devices and passive components – Reliability*

ISO 1998-1:1998, *Petroleum industry – Terminology – Part 1: Raw materials and products*

EN 590, *Automotive fuels – Diesel – Requirements and test methods*

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –**

**Part 2-34: Tests – Resistance to solvents and contaminating fluids**

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

**Partie 2-34 : Essais – Résistance aux solvants et aux fluides contaminants**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –****Part 2-34: Tests – Resistance to solvents and contaminating fluids**

## FOREWORD

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

## **Part 2-34: Tests – Resistance to solvents and contaminating fluids**

### **1 Scope**

The purpose of this part of IEC 61300 is for testing the resistance to solvents and contaminating fluids on fibre optic interconnecting devices, passive components and protective housings, and their functionality.

### **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.

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IEC 61300-2-38, *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*

IEC 61300-3-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-1: Examinations and measurements – Visual examination*

IEC 61300-3-4, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-4: Examinations and measurements – Attenuation*

IEC 61300-3-6, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-6: Examinations and measurements – Return loss*

IEC 61753 (all parts), *Fibre optic interconnecting devices and passive components – Performance standards*

IEC 62005 (all parts), *Fibre optic interconnecting devices and passive components – Reliability*

ISO 1998-1:1998, *Petroleum industry – Terminology – Part 1: Raw materials and products*

EN 590, *Automotive fuels – Diesel – Requirements and test methods*

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## COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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**DISPOSITIFS D'INTERCONNEXION  
ET COMPOSANTS PASSIFS FIBRONIQUES –  
PROCÉDURES FONDAMENTALES D'ESSAIS ET DE MESURES –****Partie 2-34: Essais – Résistance aux solvants et aux fluides contaminants****AVANT-PROPOS**

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L'IEC 61300-2-34 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. Il s'agit d'une Norme internationale.

Cette troisième édition annule et remplace la deuxième édition parue en 2009. Cette édition constitue une révision technique.

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

- a) révision du titre;
- b) classification de la procédure d'essai et des fluides applicables, en alignant le document sur l'IEC 61753-1;
- c) sévérités de l'essai.

Le texte de cette Norme internationale est issu des documents suivants:

Projet	Rapport de vote
86B/4879/FDIS	86B/4924/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.

Ce 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](http://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](http://www.iec.ch/publications).

Une liste de toutes les parties de la série IEC 61300, publiées sous le titre général *Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures*, se trouve sur le site web de l'IEC.

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

### **Partie 2-34: Essais – Résistance aux solvants et aux fluides contaminants**

#### **1 Domaine d'application**

L'objectif de la présente partie de l'IEC 61300 est relatif aux essais de résistance aux solvants et aux fluides contaminants des dispositifs d'interconnexion, des composants passifs et des boîtiers de protection fibroniques, ainsi que de leur fonctionnalité.

#### **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*

IEC 61300-2-38, *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*

IEC 61300-3-1, *Dispositifs d'interconnexion et composants passifs à fibres optiques – Méthodes fondamentales d'essais et de mesures – Partie 3-1: Examens et mesures – Examen visuel*

IEC 61300-3-4, *Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures – Partie 3-4: Examens et mesures – Affaiblissement*

IEC 61300-3-6, *Dispositifs d'interconnexion et composants passifs à fibres optiques – Méthodes fondamentales d'essais et de mesures – Partie 3-6: Examens et mesures – Affaiblissement de réflexion*

IEC 61753 (toutes les parties), *Dispositifs d'interconnexion et composants passifs fibroniques – Norme de performance*

IEC 62005 (toutes les parties), *Dispositifs d'interconnexion et composants passifs fibroniques – Fiabilité*

ISO 1998-1:1998, *Industrie pétrolière – Terminologie – Partie 1: Matières premières et produits*

EN 590, *Carburants pour automobiles – Carburants pour moteur diesel (gazole) – Exigences et méthodes d'essai*