IEC 61300-2-34

Edition 2.0 2009-05

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 of interconnecting components and closures

Dispositifs d'interconnexion et composants passifs à fibres optiques – Procédures fondamentales d'essais et de mesures –
Partie 2-34: Essais – Résistance des composants d'interconnexion et des boîtiers 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 of interconnecting components and closures

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International Standard IEC 61300-2-34 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 1995. The main changes from the previous edition are as follows: the procedure and severity have been reconsidered.

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This bilingual version, published in 2010-12, corresponds to the English version.

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

FDIS	Report on voting
86B/2826/FDIS	86B/2851/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.

The French version of this standard has not been voted upon.

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.

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

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- amended.

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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 fibre optic interconnecting components and closures. 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 closures.

2 Normative references

The following referenced documents are indispensable for the application 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*

3 General description

This test method covers the effects of contaminating fluids on the properties of fibre optic interconnecting components and closures. Testing is performed by immersing specimens in a specified fluid for a specified period at a specified temperature. A separate specimen shall be used with each fluid. Properties are measured prior to and after exposure to the fluid.

WARNING *– Intended users of this procedure are cautioned that tests of this nature may involve the use of certain hazardous material, operations and equipment. In particular, some of the fluids that may be used are flammable or may constitute health hazards, or both. Test temperatures should be at least 10 °C below the flashpoint of any fluid being used. Open flame heat sources should not be used with any organic solvents. Test personnel should consult the relevant material's safety data sheets when necessary.*

4 Apparatus

4.1 Containers

A boro-silicate glass or stainless steel vessel of suitable volume for each test fluid shall be used. Vessels shall be of sufficient size and capacity to permit the specimen to be immersed until it is fully covered in the selected fluid without violating other physical constraints (e.g. minimum cable bend radius).

4.2 Fluids

Fluids used shall be in accordance with the relevant specification for the fluid.

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