

This is a preview - click here to buy the full publication



IEC 61300-2-34

Edition 2.0 2009-05

# INTERNATIONAL STANDARD

---

**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**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

PRICE CODE

J

---

ICS 33.180.20

ISBN 978-2-88910-493-2

## CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references.....	5
3 General description.....	5
4 Apparatus.....	5
4.1 Containers.....	5
4.2 Fluids.....	5
4.3 Heat source.....	6
4.4 Oven.....	6
5 Procedure.....	6
5.1 General.....	6
5.2 Preconditioning.....	6
5.3 Initial examinations and measurements.....	6
5.4 Conditioning.....	6
5.5 Recovery.....	6
5.6 Final examinations and measurements.....	6
6 Severity.....	7
6.1 General.....	7
6.2 Exposure and drying duration.....	7
6.3 Fuels, lubricants, hydraulic fluids, cleaning agents and moisture repellents and anti-freeze agents.....	7
7 Details to be specified.....	8
Bibliography.....	9
Table 1 – Preferred test durations.....	7
Table 2 – Preferred drying durations.....	7
Table 3 – List of test fluids.....	8

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

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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.

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.

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 maintenance result 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.

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

**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*