

INTERNATIONAL STANDARD



**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –
Part 2-9: Tests – Shock**



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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	5
4 General description	7
5 Apparatus.....	7
5.1 Shock machine	7
5.1.1 General	7
5.1.2 Repetition rate.....	7
5.1.3 Velocity change tolerances	8
5.1.4 Cross axis motion	8
5.1.5 Acceleration measuring system	8
5.2 Mounting fixture	9
5.3 Optical power measuring equipment	9
6 Procedure.....	9
6.1 Preparation of DUT	9
6.2 Pre-conditioning.....	10
6.3 Initial examinations and measurements.....	10
6.4 Testing	10
6.5 Recovery	10
6.6 Final examination and measurements	10
7 Shock severity.....	11
8 Details to be specified	11
Bibliography.....	12
Figure 1 – Fixing points	6
Figure 2 – Pulse shape and limits of tolerance for half-sine pulse	7
Figure 3 – Frequency characteristics of the overall measuring system without low-pass filter	9
Table 1 – Required frequency characteristic values for the overall measuring system.....	9
Table 2 – Severity for passive components and modules	11
Table 3 – Severity for fibre management systems and closures	11

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING
DEVICES AND PASSIVE COMPONENTS –
BASIC TEST AND MEASUREMENT PROCEDURES –****Part 2-9: Tests – Shock**

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International Standard IEC 61300-2-9 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 2010. This edition constitutes a technical revision.

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

- a) inserted clause "Terms and definitions";
- b) added precise descriptions to clause "Apparatus";
- c) added sub clause "Testing" into clause "Procedure";
- d) added "Bibliography".

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

CDV	Report on voting
86B/3979/CDV	86B/4017/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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

Part 2-9: Tests – Shock

1 Scope

This part of IEC 61300 defines a test method to reveal mechanical weakness and/or degradation of fibre optic devices when subjected to repetitive or non-repetitive mechanical shocks. It simulates infrequent repetitive or non-repetitive shocks likely to be encountered in normal service or during transportation.

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 60068-1, *Environmental testing – Part 1: General and guidance*

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

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 61300-3-28, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-28: Examinations and measurements – Transient loss*

ISO 2041, *Mechanical vibration, shock and condition monitoring – Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 2041 and IEC 60068-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

check point

point located on the fixture, on the table surface of the shock machine, or on the DUT as close as possible to the fixing point and rigidly connected to it

Note 1 to entry A number of check points may be used to ensure the test requirements are satisfied.

Note 2 to entry If the DUT is attached by more than four fixing points, the relevant specification should state the number of fixing points that are to be used as check points.