

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 2-6: Tests – Tensile strength of coupling mechanism**

**Dispositifs d'interconnexion et composants passifs à fibres optiques –  
Méthodes fondamentales d'essais et de mesures –  
Partie 2-6: Essais – Résistance à la traction du mécanisme de couplage**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES  
AND PASSIVE COMPONENTS –  
BASIC TEST AND MEASUREMENT PROCEDURES –****Part 2-6: Tests – Tensile strength  
of coupling mechanism**

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International Standard IEC 61300-2-6 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. This edition constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition:

- a) Rewriting of the entire composition according to the latest IEC Directives;
- b) Relaxing pre-conditioning hours;
- c) Adding the recommended severity value table for connectors;
- d) Reconsidering the details to be specified section.

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

| FDIS          | Report on voting |
|---------------|------------------|
| 86B/3092/FDIS | 86B/3130/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, published under the general title, *Fibre optic interconnecting 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

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- withdrawn,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

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

## **Part 2-6: Tests – Tensile strength of coupling mechanism**

### **1 Scope**

This part of IEC 61300 describes a test to ensure that the coupling mechanism of a connector set or connector and device combination will withstand the axial loads likely to be applied during normal service.

### **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*

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 61753-1, *Fibre optic interconnecting devices and passive components performance standard – Part 1: General and guidance for performance standards*

### **3 General**

A tensile load is smoothly applied to a mated connector set or connector and device combination in a direction that will separate the components. The load is normally applied between the connector plug and the adapter or between the connector plug and the device being tested.

### **4 Apparatus**

#### **4.1 General**

The test apparatus shall be capable of applying an axial load between a connector plug or coupling mechanism and an adapter or device. An example of a test apparatus is shown in Figure 1. Some or all of the following apparatus components will be required.