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Part 1-30: Measurement methods and test procedures – Fibre proof test

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Figure 1 – Braked capstan type 8
Figure 2 – Dead weight type 8

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OPTICAL FIBRES –

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FOREWORD

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International Standard IEC 60793-1-30 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2001 and constitutes a technical revision.

The main change with respect to the previous edition is an improved description of the procedure.

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

CDV	Report on voting
86A /1288/CDV	86A/1313/RVC

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 parts of the IEC 60793-1-3x series, published under the general title *Optical fibres – measurement methods and test 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- withdrawn,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.

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

INTRODUCTION

Publications in the IEC 60793-1 series concern measurement methods and test procedures as they apply to optical fibres.

Within the same series, several different areas are grouped, but all numbers possibly not used, as follows:

- parts 1-10 to 1-19: General
- parts 1-20 to 1-29: Measurement methods and test procedures for dimensions
- parts 1-30 to 1-39: Measurement methods and test procedures for mechanical characteristics
- parts 1-40 to 1-49: Measurement methods and test procedures for transmission and optical characteristics
- parts 1-50 to 1-59: Measurement methods and test procedures for environmental characteristics

OPTICAL FIBRES –

Part 1-30: Measurement methods and test procedures – Fibre proof test

1 Scope

This part of IEC 60793 describes procedures for briefly applying a specified tensile load as a proof test to continuous lengths of optical fibre. The tensile load is applied for as short a time as possible, yet sufficiently long to ensure the glass experiences the proof stress, typically much less than one second.

This method is applicable to types A1, A2, A3 and B optical fibres.

The object of this standard is to establish uniform requirements for the mechanical characteristic fibre proof test.