

BS EN 60793-1-30:2011



BSI Standards Publication

Optical fibres

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

bsi.

...making excellence a habit.
AVA Documents™
Document Sharing Hub

National foreword

This British Standard is the UK implementation of EN 60793-1-30:2011. It is identical to IEC 60793-1-30:2010. It supersedes BS EN 60793-1-30:2002 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee GEL/86, Fibre optics, to Subcommittee GEL/86/1, Optical fibres and cables.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© BSI 2011

ISBN 978 0 580 65855 6

ICS 33.180.10

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2011.

Amendments issued since publication

Amd. No.	Date	Text affected
----------	------	---------------

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60793-1-30

February 2011

ICS 33.180.10

Supersedes EN 60793-1-30:2002

English version

**Optical fibres -
Part 1-30: Measurement methods and test procedures -
Fibre proof test
(IEC 60793-1-30:2010)**

Fibres optiques -
Partie 1-30: Méthodes de mesure et
procédures d'essai -
Essais d'épreuve
(CEI 60793-1-30:2010)

Lichtwellenleiter -
Teil 1-30: Messmethoden und
Prüfverfahren -
Nachweis von Fehlern in Fasern
(IEC 60793-1-30:2010)

This European Standard was approved by CENELEC on 2011-01-02. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

© 2011 CENELEC - All rights of exploitation in any form and by any means reserved worldwide for CENELEC members.

Ref. No. EN 60793-1-30:2011 E

 **Documents**
Document Sharing Hub

Foreword

The text of document 86A/1288/CDV, future edition 2 of IEC 60793-1-30, prepared by SC 86A, Fibres and cables, of IEC TC 86, Fibre optics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60793-1-30 on 2011-01-02.

This European Standard supersedes EN 60793-1-30:2002.

The main technical change with respect to EN 60793-1-30:2002 is an improved description of the procedure.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2011-10-02 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2014-01-02 |

Endorsement notice

The text of the International Standard IEC 60793-1-30:2010 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60793-1 series NOTE Partially harmonized in EN 60793-1 series (partially modified).

CONTENTS

INTRODUCTION	5
1 Scope	6
2 Normative references	6
3 Apparatus	6
3.1 General	6
3.2 Fibre pay out	6
3.3 Proof test region	6
3.4 Fibre take-up	7
3.5 Load and unload	7
3.6 Minimum bending radii	7
3.7 Typical equipment design	7
3.7.1 Introduction	7
3.7.2 Braked capstan type	7
3.7.3 Dead weight type	8
4 Sample preparation	9
5 Procedure	9
6 Calculations – Compensation for load-sharing by coating	10
7 Results	10
7.1 Test requirement	10
7.2 Information to be provided	10
7.3 Optional information	11
8 Specification information	11
Bibliography	12
Figure 1 – Braked capstan type	8
Figure 2 – Dead weight type	8