

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Optical fibres –

Part 1-32: Measurement methods and test procedures – Coating strippability

Fibres optiques –

Partie 1-32: Méthodes de mesure et procédures d'essai – Dénudabilité du revêtement



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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	5
4 Apparatus	5
4.1 Tensile equipment.....	5
4.2 Load cell	6
4.3 Transducer amplifier	6
4.4 Stripping tool	6
4.5 Fibre guide	7
5 Specimen preparation.....	7
5.1 Representative sample	7
5.2 Strip length	7
6 Procedure.....	8
6.1 General.....	8
6.2 Stripping rate	8
6.3 Preconditioning	8
6.4 Calibrating the transducer amplifier.....	8
6.5 Loading the test specimen	8
6.6 Stripping the coating	9
7 Calculations.....	9
7.1 Calculation for the value of a specimen.....	9
7.1.1 General	9
7.1.2 Approach 1 – Average strip force.....	9
7.1.3 Approach 2 – Peak strip force.....	9
7.2 Calculation of the reported value.....	9
8 Documentation	9
8.1 Information to be presented	9
8.2 Information to be available for each test.....	10
9 Specification information	10
Bibliography.....	11
Figure 1 – Example of test arrangement	6
Figure 2 – Length of fibre to be stripped	8

INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRES –

**Part 1-32: Measurement methods and test procedures –
Coating strippability**

FOREWORD

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International Standard IEC 60793-1-32 has been prepared by subcommittee 86A: Fibres and cables, 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 change with respect to the previous edition: expansion of the range of coating dimensions applicable to the procedure detailed in this document to accommodate optical fibres with a 200 µm coating dimension.

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

FDIS	Report on voting
86A/1890/FDIS	86A/1899/RVD

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 60793 series, published under the general title *Optical fibres*, 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
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OPTICAL FIBRES –

Part 1-32: Measurement methods and test procedures – Coating strippability

1 Scope

This part of IEC 60793 is intended primarily for testing either fibres as produced by a fibre manufacturer or subsequently overcoated (tight buffered) using various polymers. The test can be performed either on fibres as produced, or after exposure to various environments.

This test applies to A1, A2, A3, B and C fibres with a nominal glass dimension of 125 µm.

The object of this document is to establish uniform requirements for the mechanical characteristic – coating strippability. This test quantifies the force required to mechanically remove the protective coating from optical fibres along their longitudinal axis.

This test is not intended as a means to maximize fibre strength after the coating is removed nor is it intended to specify the best conditions for field stripping of optical fibres.

This test is designed for optical fibres having polymeric coatings with nominal outer diameters in the range of 200 µm to 900 µm.

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 60793-1-1, *Optical fibres – Part 1-1: Measurement methods and test procedures – General and guidance*

3 Terms and definitions

No terms and definitions are listed in this document.

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>

4 Apparatus

4.1 Tensile equipment

Use a suitable device, for example a vertical tensile tester, which provides relative motion between the test fibre and a stripping tool and is capable of imparting constant motion at the velocity found in 6.2, without jerking the fibre under test or the stripping tool.