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STN	**Optické vlákna** **Časť 1-61: Metódy merania a skúšobné postupy** **Polarizačný presluch**	**STN** **EN 60793-1-61** 35 9213

Optical fibres - Part 1-61: Measurement methods and test procedures - Polarization crosstalk

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Optical fibres - Part 1-61: Measurement methods and test procedures - Polarization crosstalk (IEC 60793-1-61:2017)

Fibres optiques - Partie 1-61: Méthodes de mesure et procédures d'essai - Diaphonie de polarisation (IEC 60793-1-61:2017)

Lichtwellenleiter - Teil 1-61: Messmethoden und Prüfverfahren - Polarisationsübersprechen (IEC 60793-1-61:2017)

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

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European foreword

The text of document 86A/1739/CDV, future edition 1 of IEC 60793-1-61, prepared by SC 86A "Fibres and cables" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60793-1-61:2017.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-12-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-03-14

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Endorsement notice

The text of the International Standard IEC 60793-1-61:2017 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60793-1-1	-	Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance	EN 60793-1-1	-
IEC 60793-2-70	-	Optical fibres - Part 2-70: Product specifications - Sectional specification for polarization-maintaining fibres	EN 60793-2-70	-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-

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Optical fibres –
Part 1-61: Measurement methods and test procedures – Polarization crosstalk

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Optical fibres –
Part 1-61: Measurement methods and test procedures – Polarization crosstalk

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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OPTICAL FIBRES –

Part 1-61: Measurement methods and test procedures – Polarization crosstalk

FOREWORD

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International Standard IEC 60793-1-61 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

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

CDV	Report on voting
86A/1739/CDV	86A/1781/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 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
- amended.

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

OPTICAL FIBRES –

Part 1-61: Measurement methods and test procedures – Polarization crosstalk

1 Scope

This part of IEC 60793 establishes uniform requirements for measuring the polarization crosstalk of polarization-maintaining (PM) fibres.

This document gives two methods for measuring the polarization crosstalk of PM fibres. Method A is the power ratio method, which uses the maximum and minimum values of output power at a specified wavelength, and Method B is the in-line method, which uses an analysis of the Poincaré sphere.

Details of each method are described in Clause 6.

Crosstalk values obtained by Methods A and B are based on different definitions.

The crosstalk measured by Method A is defined as an "averaged" value over a measured wavelength range. In contrast, the crosstalk value obtained from Method B shows the "worst case" crosstalk value.

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*

IEC 60793-2-70[1], *Optical fibres – Part 2-70: Product specifications – Sectional specifications for polarization-maintaining fibres*

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