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Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-55:Examinations and measurements - Polarisation extinction ratio and keying accuracy of polarisation maintaining, passive, optical components

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/20

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EN IEC 61300-3-55

NORME EUROPÉENNE

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June 2020

ICS 33.180.20

English Version

**Fibre optic interconnecting devices and passive components -
Basic test and measurement procedures - Part 3-
55:Examinations and measurements - Polarisation extinction
ratio and keying accuracy of polarisation maintaining, passive,
optical components
(IEC 61300-3-55:2020)**

Dispositifs d'interconnexion et composants passifs
fibroniques - Procédures fondamentales d'essais et de
mesures - Partie 3-55: Examens et mesures - Rapport
d'extinction de polarisation et précision du détournement des
composants optiques passifs maintenant la polarisation
(IEC 61300-3-55:2020)

Lichtwellenleiter-Verbindungselemente und passive
Bauteile - Grundlegende Prüf- und Messverfahren - Teil 3-
55: Untersuchungen und Messungen -
Polarisationsauslöschungsverhältnis und Tastgenauigkeit
von polarisationserhaltenden, passiven, optischen
Komponenten
(IEC 61300-3-55:2020)

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EN IEC 61300-3-55:2020 (E)**European foreword**

The text of document 86B/4276/FDIS, future edition 1 of IEC 61300-3-55, prepared by SC 86B "Fibre optic interconnecting devices and passive components" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61300-3-55:2020.

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| IEC 60874-1 | NOTE | Harmonized as EN 60874-1 |
| IEC 61300-3-24 | NOTE | Harmonized as EN 61300-3-24 |
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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –

Part 3-55: Examinations and measurements – Polarisation extinction ratio and keying accuracy of polarisation maintaining, passive, optical components

Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures –

Partie 3-55: Examens et mesures – Rapport d'extinction de polarisation et précision du détrompage des composants optiques passifs maintenant la polarisation



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IEC 61300-3-55

Edition 1.0 2020-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –
Part 3-55: Examinations and measurements – Polarisation extinction ratio and keying accuracy of polarisation maintaining, passive, optical components**

**Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures –
Partie 3-55: Examens et mesures – Rapport d'extinction de polarisation et précision du détrompage des composants optiques passifs maintenant la polarisation**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

**Part 3-55: Examinations and measurements –
Polarisation extinction ratio and keying accuracy
of polarisation maintaining, passive, optical components**

FOREWORD

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

| | |
|---------------|------------------|
| FDIS | Report on voting |
| 86B/4276/FDIS | 86B/4290/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 61300 series, published under the general title *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures*, 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.

INTRODUCTION

This document contains and expands the content of IEC 61300-3-24 and IEC 61300-3-40.

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

**Part 3-55: Examinations and measurements –
Polarisation extinction ratio and keying accuracy
of polarisation maintaining, passive, optical components**

1 Scope

This part of IEC 61300 provides methods for measuring the polarisation extinction ratio (PER) of single-mode, polarisation maintaining (PM) optical components based upon PM fibres. This document also provides methods for detecting the input and output orientation of the PM components' principal axes as well as methods for estimating the keying accuracy, i.e. the angular misalignment between the principal axes and the mechanical reference guide key of the connectors, if these are present.

2 Normative references

There are no normative references in this document.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN