

STN	Optovláknové spájacie prvky a pasívne súčiastky Spôľahlivosť Časť 9-4: Posúdenie pasívnych optických súčiastok vzhľadom na ich použitie pre aplikácie s vysokým optickým výkonom pre kategóriu prostredia C	STN EN IEC 62005-9-4 35 9253
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Fibre optic interconnecting devices and passive components - Reliability - Part 9-4: High power qualification of passive optical components for environmental category C

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. 04/19

Obsahuje: EN IEC 62005-9-4:2018, IEC 62005-9-4:2018

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English Version

**Fibre optic interconnecting devices and passive components -
Reliability - Part 9-4: High power qualification of passive optical
components for environmental category C
(IEC 62005-9-4:2018)**

Dispositifs d'interconnexion et composants passifs
fibroniques - Fiabilité - Partie 9-4: Qualification de
puissance élevée des composants optiques passifs pour la
catégorie environnementale C
(IEC 62005-9-4:2018)

Lichtwellenleiter - Verbindungselemente und passive
Bauteile - Zuverlässigkeit - Teil 9-4: Qualifizierung von
passiven optischen Bauteilen für Umgebungskategorie C
für den Einsatz bei hohen optischen Leistungen
(IEC 62005-9-4:2018)

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Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62005-9-4:2018 (E)**European foreword**

The text of document 86B/4130/FDIS, future edition 1 of IEC 62005-9-4, 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 62005-9-4:2018.

The following dates are fixed:

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IEC 60825 (series)	NOTE	Harmonized as EN 60825 (series)
IEC 61291-5-2	NOTE	Harmonized as EN 61291-5-2
IEC 61300-2-48	NOTE	Harmonized as EN 61300-2-48
IEC 61300-3-2	NOTE	Harmonized as EN 61300-3-2
IEC 61300-3-6	NOTE	Harmonized as EN 61300-3-6
IEC 61300-3-7	NOTE	Harmonized as EN 61300-3-7
IEC 61300-3-20	NOTE	Harmonized as EN 61300-3-20
IEC 61753-1	NOTE	Harmonized as EN 61753-1
IEC 62074-1	NOTE	Harmonized as EN 62074-1

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 Where 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61300	series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures	EN 61300	series
IEC 61300-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance	EN 61300-1	-
IEC 61300-2-14-		Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-14: Tests - High optical power	EN 61300-2-14	-
IEC 61300-2-19-		Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state)	EN 61300-2-19	-
IEC 61300-2-22-		Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature	EN 61300-2-22	-
IEC 61300-3-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination	EN 61300-3-1	-
IEC 61300-3-35-		Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-35: Examinations and measurements - Visual inspection of fibre optic connectors and fibre-stub transceivers	EN 61300-3-35	-
IEC 62005-9-1	-	Fibre optic interconnecting devices and passive components - Reliability - Part 9-1: Qualification of passive optical components	EN 62005-9-1	-



IEC 62005-9-4

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INTERNATIONAL STANDARD

**Fibre optic interconnecting devices and passive components – Reliability –
Part 9-4: High power qualification of passive optical components for
environmental category C**

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INTERNATIONAL STANDARD

**Fibre optic interconnecting devices and passive components – Reliability –
Part 9-4: High power qualification of passive optical components for
environmental category C**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES AND
PASSIVE COMPONENTS – RELIABILITY –****Part 9-4: High power qualification of passive optical components
for environmental category C**

FOREWORD

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International Standard IEC 62005-9-4 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components of IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86B/4130/FDIS	86B/4136/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 62005 series, published under the general title *Fibre optic interconnecting devices and passive components – Reliability*, 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.

INTRODUCTION

At present there is no standard for reliability qualification for passive components with respect to high power use. This has led to component manufacturers having to perform different set of tests for various customers leading to higher cost. Additionally such non-standardized testing has led to either over or under testing devices. The aim of this document is to mitigate these issues, by establishing a common framework for reliability assurance at high optical power. While there is no exact number beyond which the optical power is demarcated as high, power exceeding 23 dBm (200 mW) of total input power is considered high.

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – RELIABILITY –

Part 9-4: High power qualification of passive optical components for environmental category C

1 Scope

This part of IEC 62005 gives the requirements for the reliability qualification of passive optical components when used in high optical power applications for the environmental category C.

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.

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IEC 61300-2-14, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-14: Tests – High optical power*

IEC 61300-2-19, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-19: Tests – Damp heat (steady state)*

IEC 61300-2-22, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-22: Tests – Change of temperature*

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