



# SLOVENSKI STANDARD SIST EN 61291-5-2:2017

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Nadomešča:  
SIST EN 61291-5-2:2004

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**Optični ojačevalniki - 5-2. del: Kvalifikacijske specifikacije - Kvalifikacije zanesljivosti za optične vlakenske ojačevalnike (IEC 61291-5-2:2017)**

Optical amplifiers - Part 5-2: Qualification specifications - Reliability qualification for optical fibre amplifiers (IEC 61291-5-2:2017)

Lichtwellenleiter-Verstärker - Teil 5-2: Anerkennungsspezifikation - Zuverlässigkeitsanerkennung (IEC 61291-5-2:2017)

Amplificateurs optiques - Partie 5-2: Spécifications de qualification - Qualification de fiabilité pour amplificateurs à fibres optiques (IEC 61291-5-2:2017)

**Ta slovenski standard je istoveten z: EN 61291-5-2:2017**

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**ICS:**

33.180.30      Optični ojačevalniki      Optic amplifiers

**SIST EN 61291-5-2:2017**      en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61291-5-2**

June 2017

ICS 33.180.30

Supersedes EN 61291-5-2:2002

English Version

**Optical amplifiers - Part 5-2: Qualification specifications -  
Reliability qualification for optical fibre amplifiers  
(IEC 61291-5-2:2017)**

Amplificateurs optiques - Partie 5-2: Spécifications de  
qualification - Qualification de fiabilité pour amplificateurs  
à fibres optiques  
(IEC 61291-5-2:2017)

Lichtwellenleiter-Verstärker - Teil 5-2:  
Anerkennungsspezifikation - Zuverlässigkeitsanerkennung  
für Lichtwellenleiter-Verstärker  
(IEC 61291-5-2:2017)

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN 61291-5-2:2017****European foreword**

The text of document 86C/1376/CDV, future edition 2 of IEC 61291-5-2, prepared by SC 86C "Fibre optic systems and active devices" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61291-5-2:2017.

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) 2017-12-02
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-06-02

This document supersedes EN 61291-5-2:2002.

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SIST EN 61291-5-2:2017

The text of the International Standard IEC 61291-5-2:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60068-2-1	NOTE	Harmonized as EN 60068-2-1.
IEC 60068-2-6	NOTE	Harmonized as EN 60068-2-6.
IEC 61300-2-1	NOTE	Harmonized as EN 61300-2-1.
IEC 61300-2-2	NOTE	Harmonized as EN 61300-2-2.
IEC 61300-2-5	NOTE	Harmonized as EN 61300-2-5.
IEC 61300-2-9	NOTE	Harmonized as EN 61300-2-9.
IEC 61300-2-18	NOTE	Harmonized as EN 61300-2-18.
IEC 61300-2-19	NOTE	Harmonized as EN 61300-2-19.
IEC 61300-2-22	NOTE	Harmonized as EN 61300-2-22.
IEC 61300-2-42	NOTE	Harmonized as EN 61300-2-42.
IEC 61300-2-44	NOTE	Harmonized as EN 61300-2-44.

IEC 62005-2	NOTE	Harmonized as EN 62005-2.
IEC 62343-2	NOTE	Harmonized as EN 62343-2.
IEC 62572-3	NOTE	Harmonized as EN 62572-3.

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## 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-731	-	International Electrotechnical Vocabulary - Chapter 731: Optical fibre communication	-	-
IEC 60068-2-2	2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	2007
IEC 60068-2-14	-	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14	-
IEC 60068-2-21	-	Environmental testing - Part 2-21: Tests - Test U: Robustness of terminations and integral mounting devices	EN 60068-2-21	-
IEC 60068-2-27	-	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	EN 60068-2-27	-
IEC 60068-2-31	-	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	EN 60068-2-31	-
IEC 60068-2-78	-	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	-
IEC 61291-1	-	Optical amplifiers - Part 1: Generic specification	EN 61291-1	-
IEC 61300-2-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	-
IEC 62005-9-1	-	Fibre optic interconnecting devices and passive components - Reliability - Part 9-1: Qualification of passive optical components	EN 62005-9-1	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62005-9-2	-	Reliability of fibre optic interconnecting devices and passive optical components - Part 9-2: Reliability qualification for single fibre optic connector sets - Single mode	-	-
TIA 455-11	-	FOTP-11 Vibration Test Procedure for Fiber Optic Components and Cables	-	-

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# INTERNATIONAL STANDARD

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Optical amplifiers **STANDARD PREVIEW**  
Part 5-2: Qualification specifications – Reliability qualification for optical fibre  
amplifiers (standards.iteh.ai)

[SIST EN 61291-5-2:2017](https://standards.iteh.ai/catalog/standards/sist/b866b84d-b5bf-410c-9cb3-f03fa5c94980/sist-en-61291-5-2-2017)

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## OPTICAL AMPLIFIERS –

**Part 5-2: Qualification specifications – Reliability qualification  
for optical fibre amplifiers**

## FOREWORD

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International Standard IEC 61291-5-2 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2002. It constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) removal of the contents on the relating quality management system from scope, terms and definitions, and the reliability requirements;
- b) moving fit-rate calculation to Annex B (informative);
- c) change of requirements for shock test;
- d) amendment of abbreviations related to changes a) and b).