

SLOVENSKI STANDARD SIST EN IEC 61753-1:2019

01-januar-2019

Nadomešča:

SIST EN 61753-1:2010

Optični spojni elementi in pasivne komponente - Tehnični standardi - 1. del: Splošno in smernice (IEC 61753-1:2018)

Fibre optic interconnecting devices and passive components - Performance standards - Part 1: General and guidance (IEC 61753-1:2018)

Izvedbeni standard za optične spojne elemente in pasivne komponente - 1. del: Splošno in navodila za izvedbene standarde (IEC 61753-1:2018)

Fibre optic interconnecting devices and passive/components performance standard - Part 1: General and guidance for performance standards (IEC 61753-1:2018)

b139-380e69f01e98/sist-en-icc-61753-1-2019

Ta slovenski standard je istoveten z: EN IEC 61753-1:2018

ICS:

33.180.20 Povezovalne naprave za

optična vlakna

Fibre optic interconnecting

devices

en

SIST EN IEC 61753-1:2019

SIST EN IEC 61753-1:2019

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN IEC 61753-1:2019

https://standards.iteh.ai/catalog/standards/sist/1993ba3b-2215-4119-b139-380e69f01e98/sist-en-iec-61753-1-2019

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN IEC 61753-1

November 2018

ICS 33.180.20

Supersedes EN 61753-1:2007

English Version

Fibre optic interconnecting devices and passive components -Performance standard - Part 1: General and guidance (IEC 61753-1:2018)

Dispositifs d'interconnexion et composants passifs fibroniques - Norme de performance - Partie 1: Généralités et recommandations (IEC 61753-1:2018) Lichtwellenleiter - Verbindungselemente und passive Bauteile - Betriebsverhalten - Teil 1: Allgemeines und Leitfaden (IEC 61753-1:2018)

This European Standard was approved by CENELEC on 2018-09-19. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

SIST EN IEC 61753-1:2019

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

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

European foreword

The text of document 86B/4131/FDIS, future edition 2 of IEC 61753-1, 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 61753-1:2018.

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
- latest date by which the national standards conflicting with the document have to be withdrawn

This document supersedes EN 61753-1:2007.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

iTeh STANDARD PREVIEW (standards.iteh.ai)

Endorsement notice

SIST EN IEC 61753-1:2019

https://standards.iteh.ai/catalog/standards/sist/1993ba3b-2215-4119-

The text of the International Standard IEC 61753-1:2018 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60721-2-1 NOTE Harmonized as EN 60721-2-1

IEC 61753 (series) NOTE Harmonized as EN 61753 (series)

IEC 62005 (series) NOTE Harmonized as EN IEC 62005 (series)

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

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>	EN/HD	<u>Year</u>
IEC 60529	-	Degrees of protection provided by enclosures (IP Code) STANDARD PREVIEW	-	-
IEC 61300	series	Fibre optic interconnecting devices and passive components Basic test and measurement procedures	-	-
IEC 61300-2-1	- 1	Fibre optic interconnecting devices and passive components Basic test and measurement procedures - Part 2-1. Tests Vibration (sinusoidal)	EN 61300-2-1	-
IEC 61300-2-2	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-2: Tests - Mating durability	EN 61300-2-2	-
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 61300-2-5	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests - Torsion	EN 61300-2-5	-
IEC 61300-2-6	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-6: Tests - Tensile strength of coupling mechanism	EN 61300-2-6	-
IEC 61300-2-7	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-7: Tests - Bending moment	EN 61300-2-7	-
IEC 61300-2-9	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests - Shock	EN 61300-2-9	-
IEC 61300-2-10) -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-10: Tests - Crush resistance	EN 61300-2-10) -

IEC 61300-2-11 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-11: Tests - Axial compression	EN 61300-2-11 -
IEC 61300-2-12 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-12: Tests - Impact	EN 61300-2-12 -
IEC 61300-2-17 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests - Cold	EN 61300-2-17 -
IEC 61300-2-18 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance	EN 61300-2-18 -
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 61300-2-21 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-21: Tests - Composite temperature/humidity cyclic test	EN 61300-2-21 -
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 61300-2-23 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-23 Tests - Sealing for non-pressurized closures of fibre optic devices b-2215-4119-	EN 61300-2-23 -
IEC 61300-2-26 -	b139-380e69f01e98/sist-en-icc-61753-1-2019 Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist	EN 61300-2-26 -
IEC 61300-2-27 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-27: Tests - Dust - Laminar flow	EN 61300-2-27 -
IEC 61300-2-28 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-28: Tests - Corrosive atmosphere (sulphur dioxide)	EN 61300-2-28 -
IEC 61300-2-33 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-33: Tests - Assembly and disassembly of fibre optic mechanical splices, fibre management systems and closures	EN 61300-2-33 -
IEC 61300-2-34 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-34: Tests - Resistance to solvents and contaminating fluids of interconnecting components and closures	EN 61300-2-34 -
IEC 61300-2-35 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-35: Tests - Cable nutation	EN 61300-2-35 -

IEC 61300-2-37 -	Fibre optic interconnecting devices and passive EN 61300-2-37 - components - Basic test and measurement procedures - Part 2-37: Tests - Cable bending for fibre optic closures
IEC 61300-2-38 -	Fibre optic interconnecting devices and passive EN 61300-2-38 - components - Basic test and measurement procedures - Part 2-38: Tests - Sealing for pressurized fibre optic closures
IEC 61300-2-42 -	Fibre optic interconnecting devices and passive EN 61300-2-42 - components - Basic test and measurement procedures - Part 2-42: Tests - Static side load for strain relief
IEC 61300-2-44 -	Fibre optic interconnecting devices and passive EN 61300-2-44 - components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices
IEC 61300-2-45 -	Fibre optic interconnecting devices and passive EN 61300-2-45 - components - Basic test and measurement procedures - Part 2-45: Tests - Durability test by water immersion
IEC 61300-2-46 -	Fibre optic interconnecting devices and passive EN 61300-2-46 - components - Basic test and measurement procedures - Part 2-46: Tests - Damp heat, cyclic
IEC 61300-2-50 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures 12-50: Tests - Fibre optic connector proof test with static load - Singlemode and multimode SIST EN IEC 61753-1:2019
IEC 61300-3-3 -	Fibre optic interconnecting devices and passive P EN 61300-3-3 - components 80.66 Basic sitest land 75 measurement procedures - Part 3-3: Examinations and measurements - Active monitoring of changes in attenuation and return loss
IEC 61300-3-4 -	Fibre optic interconnecting devices and passive EN 61300-3-4 - components - Basic test and measurement procedures - Part 3-4: Examinations and measurements - Attenuation
IEC 61300-3-6 -	Fibre optic interconnecting devices and passive EN 61300-3-6 - components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss
IEC 61300-3-7 -	Fibre optic interconnecting devices and passive EN 61300-3-7 - components - Basic test and measurement procedures - Part 3-7: Examinations and measurements - Wavelength dependence of attenuation and return loss of single mode components
IEC 61300-3-28 -	Fibre optic interconnecting devices and passive EN 61300-3-28 - components - Basic test and measurement procedures - Part 3-28: Examinations and measurements - Transient loss

IEC 61300-3-29 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-29: Examinations and measurements - Spectral transfer characteristics of DWDM devices	EN 61300-3-29 -
IEC 61300-3-34 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-34: Examinations and measurements - Attenuation of random mated connectors	EN 61300-3-34 -
IEC 61300-3-45 -	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-45: Examinations and measurements - Attenuation of random mated multifibre connectors	EN 61300-3-45 -
IEC Guide 109 -	Environmental aspects - Inclusion in electrotechnical product standards	-
ISO 1998-1 1998	Petroleum industry - Terminology - Part 1: Raw materials and products	-

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN IEC 61753-1:2019

https://standards.iteh.ai/catalog/standards/sist/1993ba3b-2215-4119-b139-380e69f01e98/sist-en-iec-61753-1-2019



IEC 61753-1

Edition 2.0 2018-08

INTERNATIONAL **STANDARD**

NORME INTERNATIONALE



Fibre optic interconnecting devices and passive components - Performance Part 1: General and guidance (standards.iteh.ai)

SIST EN IEC 61753-1:2019

Dispositifs d'interconnexion et composants passifs fibroniques - Norme de b139-380e69f01e98/sist-en-iec-61753-1-2019 performance -

Partie 1: Généralités et recommandations

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION **ELECTROTECHNIQUE INTERNATIONALE**

ISBN 978-2-8322-5923-8 ICS 33.180.20

Warning! Make sure that you obtained this publication from an authorized distributor. Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.

CONTENTS

FOREWORD	4
INTRODUCTION	7
1 Scope	8
2 Normative references	8
3 Terms and definitions	10
4 Abbreviations	14
5 Preparation of a performance standard	14
5.1 Performance standard title	
5.2 Tests	
5.3 Details	
5.4 Requirements	14
5.5 Sample size	14
5.6 Sample definition	14
5.7 Groupings/sequences	15
5.8 Pass/fail criteria	
5.9 Reference product definition	
5.10 Performance standard test report 6 Environmental aspects I ANDARD PREVIEW	15
Annex A (normative) Tests, severities and criteria for performance standards	
A.1 General	
A.2 How to find the performance tests for the desired category?	20
A.3 Performance criteriards.iteh.ai/catalog/standards/sist/1993ba3b-2215-4119- b139-380e69f01e98/sist-en-iec-61753-1-2019 Annex B (normative) Performance standard numbering	45
Bibliography	60
Figure 1 – Relationship between various protective housing types	13
Figure A.1 – Flow chart to identify the relevant category for the operating service	
environment	21
Table A.1 – Operating service environments and performance categories	18
Table A.2 – Operating service environments and performance categories for	
components in locations with additional heat dissipation by active electronics	20
Table A.3 – Connectors, passive components, mechanical splices, fusion splice protectors and fibre management systems – Category C – Indoor controlled	
environment	22
Table A.4 – Connectors, field mountable connectors, passive components, mechanical	
splices, fusion splice protectors and fibre management systems – Category C ^{HD} – Indoor controlled environment with additional heat dissipation	24
Table A.5 – Connectors, field mountable connectors, passive components, mechanical splices, fusion splice protectors and fibre management systems – Category OP – Outdoor protected environment	25
Table A.6 – Connectors, field mountable connectors, passive components, mechanical splices, fusion splice protectors and fibre management systems – Category OP ^{HD} – Outdoor protected environment with additional heat dissipation	27

splices, fusion splice protectors and fibre management systems – Category OP+ – Extended outdoor protected environment	28
Table A.8 – Connectors, field mountable connectors, passive components, mechanical splices, fusion splice protectors and fibre management systems – Category OP+ ^{HD} – Extended outdoor protected environment with additional heat dissipation	28
Table A.9 – Connectors, passive optical components – Category I – Industrial environment	29
Table A.10 – Connectors, passive optical components – Category I ^{HD} – Industrial environment with additional heat dissipation	31
Table A.11 – Connectors and passive optical components – Category E – Extreme environment	32
Table A.12 – Wall outlets, boxes, optical distribution frame modules and closures – Category C – Indoor controlled environment	34
Table A.13 – Hardened optical connectors, street cabinets, boxes and closures Category A – Outdoor aerial environment	36
Table A.14 – Hardened optical connectors and closures – Category G – Outdoor ground environment	39
Table A.15 – Hardened optical connectors and closures – Category S – Outdoor subterranean environment	42
Table A.16 – Single mode connectors	45
Table A.17 – Single mode field mountable connectors P.R.E.V.IE.W	46
Table A.18 – Multi mode connectors and ards: iteh.ai)	47
Table A.19 – Single mode mechanical splices	48
Table A.20 – Multi mode mechanica <u>Esplices F.C. 61.753-1.2019</u>	49
Table A.21 – Single mode fusion splice protectors	49
Table A.22 – Passive optical components	50
Table A.23 – Fibre management systems	51
Table A.24 – Category C – Wall outlets and boxes	52
Table A.25 – Category C – Optical distribution frame modules (OFDM)	53
Table A.26 – Category A, single mode boxes, street cabinets and free breathing closures	54
Table A.27 – Category A, G and S single mode sealed closures	55
Table A.28 – Category A, G and S single mode hardened fibre optic connectors	56

IEC 61753-1:2018 © IEC 2018

INTERNATIONAL ELECTROTECHNICAL COMMISSION

_ 4 _

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – PERFORMANCE STANDARD –

Part 1: General and guidance

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.

 https://standards.itch.ai/catalog/standards/sist/1993ba3b-2215-4119-
- 5) IEC itself does not provide any attestation of conformity, independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61753-1 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2007. It constitutes a technical revision.

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

- a) definitions updated with new products: wall outlets, wall or pole mounted boxes, splices, ODF modules, street cabinets, hardened connectors and field mountable connectors;
- b) categories U and O are replaced by categories OP and OP+. No mandatory sequence in category OP+. Category OP+ contains the tests from category OP with the addition of only 4 other tests:
- c) addition of Category I (Industrial);

- d) temperature ranges added (with the HD suffix to the categories C, OP, OP+ and I) in case passive optical components are placed in a housing together with active electronics (HD stands for "heat dissipation");
- e) the height of category A changed from 3 m to ground level (0 m);
- f) the lower level height of category G environment changed from ground level (0 m) to −1 m below ground level. Upper level remains at 3 m above ground level;
- g) addition of performance tests, test severities and performance criteria for new products: Wall outlet, wall or pole mounted boxes, mechanical splices, fusion splice protectors, ODF modules, street cabinets, field mountable connectors and hardened optical connectors;
- h) test severity of "Mating durability" test for connectors in categories C, OP ,OP+ and I is reduced to 200 cycles for connectors with cylindrical ferrules and 50 cycles for connectors with rectangular ferrules;
- i) test severity of "Change of temperature" test for connectors and passive optical components in category I is reduced from 20 cycles to 12 cycles (harmonized with connectors and components from other categories);
- j) test severity of "Flexing of strain relief" test for connectors in categories C, OP and OP+ is reduced to 50 cycles;
- k) test severities of "Assembly and disassembly of fibre optic mechanical splices, fibre management systems and closures" test for all enclosures is reduced to 5 cycles;
- I) test severities of "Change of temperature" test for all protective housings in categories C, A, G and S is reduced from 20 cycles to 12 cycles (harmonized with connectors and components);
- m) test severities of "Resistance to solvents and contaminating fluids" test for closures in categories G and S changed kerosene is removed, diesel oil exposure reduced to 1 h immersion and 24 h drying at room temperature;
- n) sealing performance criteria of sealed relosures for ategories G and A are reduced to 20 kPa overpressure.//standards.iteh.ai/catalog/standards/sist/1993ba3b-2215-4119-
- o) the change in attenuation criterion for connectors has changed from peak-to-peak into a +/- deviation from the original value of the transmitted power at the start of the test (harmonized with the change in attenuation criterion for components, splices and protective housings).

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

FDIS	Report on voting
86B/4131/FDIS	86B/4137/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 61753 series, published under the general title *Fibre optic interconnecting devices and passive components – Performance standard,* can be found on the IEC website.

IEC 61753-1:2018 © IEC 2018

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.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN IEC 61753-1:2019</u> https://standards.iteh.ai/catalog/standards/sist/1993ba3b-2215-4119-b139-380e69f01e98/sist-en-iec-61753-1-2019

-6-

-7-

INTRODUCTION

The IEC 61753 series is dealing with performance standards for all passive fibre optic products, including connectors, passive optical components, fibre management systems and various protective housings. The standard is published in multiple parts. This part, Part 1, covers general information on performance standards. Subsequent parts are known as performance standards and are numbered according to the classification defined in Annex B. These standards contain the minimum test and measurement severities which are common to all passive fibre optic products, for a particular service environment or performance category, and the test and measurement severities which are considered specific to that particular product in that environment.

Performance Standards define the requirements for standard optical performance under a set of specified conditions. Each standard contains a series or a set of tests and measurements with clearly stated conditions, severities and pass/fail criteria. The series of tests, commonly referred to as an operating service environment or performance category, is intended to be run on a 'one-off' basis to prove the product's ability to satisfy the requirements of a specific application, market sector or user group.

This document define those sets of tests which form each operating service environment or performance category and which have been standardised for international use. A product that has been shown to meet all the requirements of a performance standard can be declared as complying with that performance standard.

Products having the same classification from one manufacturer that satisfy a performance standard, will operate within the boundaries set by the performance standard. Intermateability or interchangeability of products from different suppliers (having the same classification and conforming to the same performance standard) can only be guaranteed when these products also meet the interface standards Tonly in this condition will an equivalent level of performance be provided when they are used together (for example in the case of optical connectors).

blag-380e6901e98/sist-en-icc-61753-1-2019

Conformance to a performance standard is not a guarantee of lifetime assured performance or reliability. Reliability testing is the subject of a separate test schedule, where the tests and severities selected are truly representative of the requirements of this reliability test programme. Consistency of manufacture will be maintained using a recognised quality assurance programme whilst the reliability of product will be evaluated using the procedures recommended in IEC 62005 (all parts).

Tests and measurements are selected from IEC 61300 (all parts). Where this is not possible, the required test method is attached as an annex to the performance standard.