

**SLOVENSKI STANDARD
SIST EN IEC 61755-1:2022****01-december-2022****Nadomešča:
SIST EN 61755-1:2006**

Optični spojni elementi in pasivne komponente - Vmesniki optičnih konektorjev za enorodovna vlakna - 1. del: Optični vmesniki za disperzijsko nespremenjena vlakna - Splošno in smernice (IEC 61755-1:2022)

Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 1: Optical interfaces for dispersion unshifted fibres - General and guidance (IEC 61755-1:2022)

Lichtwellenleiter - Verbindungseinrichtungen und passive Bauelemente - Optische Schnittstellen für Einmodenfasern - Teil 1: Optische Schnittstellen von nicht-dispersionsverschobenen Einmodenfasern - Allgemeines und Leitfaden (IEC 61755-1:2022)

Dispositifs d'interconnexion et composants passifs fibroniques - Interfaces optiques avec connecteurs pour fibres unimodales - Partie 1: Interfaces optiques pour fibres à dispersion non décalée - Généralités et recommandations (IEC 61755-1:2022)

Ta slovenski standard je istoveten z: EN IEC 61755-1:2022**ICS:**

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
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SIST EN IEC 61755-1:2022**en**

EUROPEAN STANDARD

EN IEC 61755-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2022

ICS 33.180.20

Supersedes EN 61755-1:2006;
EN 61755-1:2006/corrigendum Dec. 2006

English Version

Fibre optic interconnecting devices and passive components -
Connector optical interfaces for single-mode fibres - Part 1:
Optical interfaces for dispersion unshifted fibres - General and
guidance
(IEC 61755-1:2022)

Dispositifs d'interconnexion et composants passifs
fibroniques - Interfaces optiques avec connecteurs pour
fibres unimodales - Partie 1: Interfaces optiques pour fibres
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Lichtwellenleiter - Verbindungseinrichtungen und passive
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Teil 1: Optische Schnittstellen von nicht-
dispersionsverschobenen Einmodenfasern - Allgemeines
und Leitfadens
(IEC 61755-1:2022)

iTeh STANDARD PREVIEW

This European Standard was approved by CENELEC on 2022-10-19. 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.

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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

EN IEC 61755-1:2022 (E)**European foreword**

The text of document 86B/4642/FDIS, future edition 2 of IEC 61755-1, 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 61755-1:2022.

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) 2023-07-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-10-19

This document supersedes EN 61755-1:2006 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 61755-1:2022 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 standard indicated:

- IEC 60793-2-50 NOTE Harmonized as EN IEC 60793-2-50
- IEC 61300-2 (series) NOTE Harmonized as EN 61300-2 (series)
- IEC 61300-3 (series) NOTE Harmonized as EN 61300-3 (series)
- IEC 61753 (series) NOTE Harmonized as EN 61753 (series)
- IEC 61755-3-1 NOTE Harmonized as EN 61755-3-1
- IEC 61755-3-7 NOTE Harmonized as EN 61755-3-7
- IEC 61755-2 (series) NOTE Harmonized as EN 61755-2 (series)
- IEC 61755-3 (series) NOTE Harmonized as EN 61755-3 (series)
- IEC 61753-1 NOTE Harmonized as EN IEC 61753-1

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>	<u>EN/HD</u>	<u>Year</u>
IEC 61300	series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures	EN IEC 61300	series
IEC 61300-3-6	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss	EN 61300-3-6	-
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 multi-fibre connectors	EN 61300-3-45	-
IEC 61754	series	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces	EN 61754	series



IEC 61755-1

Edition 2.0 2022-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Connector
optical interfaces for single-mode fibres –
Part 1: Optical interfaces for dispersion unshifted fibres – General and guidance**

**Dispositifs d'interconnexion et composants passifs fibroniques – Interfaces
optiques avec connecteurs pour fibres unimodales –
Partie 1: Interfaces optiques pour fibres à dispersion non décalée – Généralités
et recommandations**

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CONTENTS

FOREWORD	3
0 Introduction	5
0.1 Overview	5
0.2 Hierarchical relationship	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 Structure of the IEC 61755 series	8
5 Optical datum target	9
6 Test methods	10
7 Optical interface grades	10
8 Key parameters	11
9 Materials	12
Bibliography	13
Figure 1 – Relationship between optical interface standards and interface standards	6
Table 1 – Multi-part structure of the IEC 61755 series	9
Table 2 – Single-mode random mate attenuation grades at 1 310 nm (dB)	11
Table 3 – Single-mode return loss grades at 1 310 nm (dB)	11

<https://standards.iteh.ai/catalog/standards/sist/bcd27a-ef20-4a3b-96aa-51e4232e1a04/sist-en-iec-61755-1-2022>

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING
DEVICES AND PASSIVE COMPONENTS –
CONNECTOR OPTICAL INTERFACES FOR SINGLE-MODE FIBRES –****Part 1: Optical interfaces for dispersion unshifted fibres –
General and guidance**

FOREWORD

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IEC 61755-1 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics. It is an International Standard.

This second edition cancels and replaces the first edition published in 2005. This edition constitutes a technical revision.

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

- a) deletion of Figure 2, Figure 3 and Table 4, and consideration of the whole parts of the text;
- b) addition of the test method for random mating of the multifibre connectors;
- c) introduction of a nomenclature for the specified core location variants;
- d) replacement of the limited MFD range, which is now in line with the complete MFD range specified in IEC 60793-2-50;

- e) replacement of the references to reliability standards to reliability technical reports;
- f) new general title for the series.

The text of this document is based on the following documents:

Draft	Report on voting
86B/4642/FDIS	86B/4663/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts of the IEC 61755 series, under the general title *Fibre optic interconnecting devices and passive components – Connector optical interfaces for single-mode fibres*, can be found on the IEC website.

Future documents in this series will carry the new general title as cited above. Titles of existing documents in this series will be updated at the time of the next edition.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under 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.