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**Fiberoptik –
Optiska gränssnitt för kontaktdon –
Del 6-2: Anslutning av multimodfiber med 50 µm kärndiameter
med fysisk kontakt mellan kontakterade fibrer –
Icke-vinklade för referenskontaktapplikationer,
vid 850 nm våglängd med utvald A1a-fiber**

Fibre optic interconnecting devices and passive components –

Connector optical interfaces –

Part 6-2: Connection of 50 µm core diameter multimode physically contacting fibres –

Non-angled for reference connector application, at wavelength of 850 nm using selected A1a fibre only

Som svensk standard gäller europastandarden EN IEC 61755-6-2:2018. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 61755-6-2:2018.

Nationellt förord

Europastandarden EN IEC 61755-6-2:2018

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 61755-6-2, First edition, 2018 - Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 6-2: Connection of 50 µm core diameter multimode physically contacting fibres - Non-angled for reference connector application, at wavelength of 850 nm using selected A1a fibre only**

utarbetad inom International Electrotechnical Commission, IEC.

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SEK Svensk Elstandard

Box 1284
164 29 Kista
Tel 08-444 14 00
www.elstandard.se

English Version

**Fibre optic interconnecting devices and passive components -
Connector optical interfaces - Part 6-2: Connection of 50 μm
core diameter multimode physically contacting fibres - Non-
angled for reference connector application, at wavelength of 850
nm using selected A1a fibre only
(IEC 61755-6-2:2018)**

Dispositifs d'interconnexion et composants passifs
fibroniques - Interfaces optiques de connecteurs - Partie 6-
2: Connexion de fibres multimodales en contact physique
d'un diamètre de coeur de 50 μm - Connecteurs de
référence sans angle, à une longueur d'onde de 850 nm et
en utilisant uniquement les fibres A1a choisies
(IEC 61755-6-2:2018)

Lichtwellenleiter - Verbindungselemente und passive
Bauteile - Optische Schnittstellen von Lichtwellenleiter-
Steckverbindern - Teil 6-2: Verbindung von nicht
abgeschrägten Mehrmodenfasern mit 50 μm
Kerndurchmesser mit physikalischem Kontakt zum Einsatz
in Referenz Steckverbinder Anwendungen bei einer
Wellenlänge von 850nm unter Verwendung von
herkömmlichen biegeempfindlichen Fasern
(IEC 61755-6-2:2018)

This European Standard was approved by CENELEC on 2018-07-26. 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.

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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

European foreword

The text of document 86B/4124/FDIS, future edition 1 of IEC 61755-6-2, 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 61755-6-2:2018.

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 (dop) 2019-04-26
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-07-26

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Endorsement notice

The text of the International Standard IEC 61755-6-2:2018 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 61300-1	NOTE	Harmonized as EN 61300-1
IEC 61300-3-42	NOTE	Harmonized as EN 61300-3-42
IEC 61755-3 series	NOTE	Harmonized as EN 61755-3 series
IEC 62614	NOTE	Harmonized as EN 62614

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 60793-2-10	2015	Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres	EN 60793-2-10	2016
IEC 61300-3-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 3-4: Examinations and measurements - Attenuation	EN 61300-3-4	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING
DEVICES AND PASSIVE COMPONENTS –
CONNECTOR OPTICAL INTERFACES –****Part 6-2: Connection of 50 µm core
diameter multimode physically contacting fibres –
Non-angled for reference connector application,
at wavelength of 850 nm using selected A1a fibre only**

FOREWORD

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International Standard IEC 61755-6-2 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/4124/FDIS	86B/4128/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 61755 series, published under the general title *Fibre optic interconnecting devices and passive components – Connector optical interfaces*, 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.

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – CONNECTOR OPTICAL INTERFACES –

Part 6-2: Connection of 50 µm core diameter multimode physically contacting fibres – Non-angled for reference connector application, at wavelength of 850 nm using selected A1a fibre only

1 Scope

This part of the IEC 61755 defines the dimensional limits of an optical interface for reference connectors necessary to meet specific requirements for fibre-to-fibre interconnection of non-angled polished multimode reference connectors with cylindrical ferrules intended to be used for attenuation measurements in the field or factory.

One grade of reference connector is defined in this document. The reference connector is terminated to selected IEC 60793-2-10:2015 A1a fibre. The geometrical dimensions and tolerances of the specified reference connector have been developed primarily to limit the variation in measured attenuation between multiple sets of two reference connectors, and therefore to limit the variation in measured attenuation between randomly chosen reference connectors when mated with connectors in the field or factory.

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.

IEC 60793-2-10:2015, *Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibre*

IEC 61300-3-4, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-4: Examinations and measurements – Attenuation*