
Spojni vmesniki optičnih vlaken – 21. del: Družina spojnikov tipa SMI za polimerna optična vlakna (IEC 61754-21:2005)

Fibre optic connector interfaces - Part 21: Type SMI connector family for plastic optical fibre (IEC 61754-21:2005)

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EUROPEAN STANDARD

EN 61754-21

NORME EUROPÉENNE

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Fibre optic connector interfaces
Part 21: Type SMI connector family for plastic optical fibre
(IEC 61754-21:2005)

Interfaces de connecteurs
pour fibres optiques
Partie 21: Famille de connecteurs de type
SMI pour les fibres optiques plastiques
(CEI 61754-21:2005)

Steckgesichter von Lichtwellenleiter-
Steckverbindern
Teil 21: Steckverbinderfamilie der Bauart
SMI für Kunststofffasern
(IEC 61754-21:2005)

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 86B/2073/FDIS, future edition 1 of IEC 61754-21, 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 was approved by CENELEC as EN 61754-21 on 2005-04-01.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2006-01-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2008-04-01 |

Endorsement notice

The text of the International Standard IEC 61754-21:2005 was approved by CENELEC as a European Standard without any modification.

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Interfaces de connecteurs pour fibres optiques –

Partie 21:

**Famille de connecteurs de type SMI
pour les fibres optiques plastiques**

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Part 21:
**Type SMI connector family
for plastic optical fibre**

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International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



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FIBRE OPTIC CONNECTOR INTERFACES –

Part 21: Type SMI connector family for plastic optical fibre

FOREWORD

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International Standard IEC 61754-21 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre Optics.

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

FDIS	Report on voting
86B/2073/FDIS	86B/2113/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This standard constitutes Part 21 of the IEC 61754 series, published under the general title *Fibre optic connector interfaces*. This series consists of Part 1, devoted to general requirements, and various additional parts, specific to individual connector families, as follows:

- Part 1: General and guidance
- Part 2: Type BFOC/2,5 connector family
- Part 3: Type LSA connector family
- Part 4: Type SC connector family
- Part 4-1: Type SC connector family – Simplified receptacle SC-PC connector interfaces
- Part 5: Type MT connector family
- Part 6: Type MU connector family
- Part 6-1: Type MU connector family – Simplified receptacle MU-PC connector interfaces
- Part 7: Type MPO connector family
- Part 8: Type CF08 connector family
- Part 9: Type DS connector family
- Part 10: Type Mini-MPO connector family
- Part 12: Type FS connector family
- Part 13: Type FC-PC connector family
- Part 15: Type LSH connector family
- Part 16: Type PN connector family
- Part 18: Type MT-RJ connector family
- Part 19: Type SG connector family
- Part 20: Type LC connector family
- Part 21: Type SMI connector family for plastic optical fibre

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

FIBRE OPTIC CONNECTOR INTERFACES –

Part 21: Type SMI connector family for plastic optical fibre

1 Scope

This part of IEC 61754 defines the standard interface dimensions for the type SMI (small multimedia interface) family of connectors.

2 Description

Type SMI connectors are duplex plug connectors which are characterised by a 5,0 mm pitch, and 2,5 mm ferrule diameter.

Type SMI connector family includes two type plugs:

- plugs with push-pull latching mechanism type, and
- plugs with friction-lock coupling mechanism type.

3 Interfaces

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The subsequent pages define the standard interfaces for the SMI connector family.

[SIST EN 61754-21:2005](#)

This standard contains the following standard interfaces:

<https://standards.iteh.ai/standards/html/61754-21-2005/61754-21-2005-1b27b90b0aed/sist-en-61754-21-2005>

Interface 1: Plug connector interface (push-pull type) – see Figure 1 and for the maximum and minimum dimensions, Table 1

Interface 2: Plug connector interface (friction-lock type) – see Figure 2 and for the maximum and minimum dimensions, Table 2

Interface 3: Receptacle connector interface) – see Figure 3 and for the maximum and minimum dimensions, Table 3

Interface 4: Adaptor connector interface) – see Figure 4 and for the maximum and minimum dimensions, Table 4

The following standard interfaces are intermateable.

Plugs	Receptacle	Adapter
	Interface 3	Interface 4
Interface 1	Mate	Mate
Interface 2	Mate	Mate