
Vmesniki optičnih konektorjev – 22. del: Konektorska družina tipa F-SMA (IEC 61754-22:2005)

Fibre optic connector interfaces - Part 22: Type F-SMA connector family (IEC 61754-22:2005)

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English version

Fibre optic connector interfaces
Part 22: Type F-SMA connector family
(IEC 61754-22:2005)

Interfaces de connecteurs
pour fibres optiques
Partie 22: Famille de connecteurs
de type F-SMA
(CEI 61754-22:2005)

Steckgesichter von LWL-Steckverbindern
Teil 22: Steckverbinderfamilie
der Bauart F-SMA
(IEC 61754-22:2005)

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CENELEC

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/2130/FDIS, future edition 1 of IEC 61754-22, 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 61754-22 on 2005-08-01.

This European Standard supersedes EN 186100:1994.

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) | 2006-05-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2008-08-01 |

Endorsement notice

The text of the International Standard IEC 61754-22:2005 was approved by CENELEC as a European Standard without any modification.

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Interfaces de connecteurs pour fibres optiques –

Partie 22:

Famille de connecteurs de type F-SMA

STANDARD PREVIEW
Fibre optic connector interfaces –
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Part 22:

Type F-SMA connector family

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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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CONTENTS

FOREWORD	5
1 Scope	9
2 Description	9
3 Interfaces	9
Figure 1– Plug F-SMA I and FSMA II connector interface.....	11
Figure 2 – Adaptor connector interface	17
Figure 3 – Receptacle connector interface	21
Table 1 – Dimensions of the plug F-SMA I connector interface	13
Table 2 – Dimensions the plug F-SMA II connector interface	15
Table 3 – Dimensions of the adaptor connector interface	19
Table 4 – Dimensions of the receptacle connector interface.....	23
Table 5 – Grade table	23

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FIBRE OPTIC CONNECTOR INTERFACES –

Part 22: Type F-SMA connector family

FOREWORD

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International Standard IEC 61754-22 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This standard cancels and replaces the sectional specification IEC 60874-2 published in 1993.

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

FDIS	Report on voting
86B/2130/FDIS	86B/2189/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 22 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
- Part 22: Type F-SMA connector family

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 22: Type F-SMA Connector family

1 Scope

This part of IEC 61754 defines the standard interface dimensions for the type F-SMA family of connectors.

2 Description

Type F-SMA defines a single way connector, characterized by a ¼ -36 – UNS thread coupling mechanism and a cylindrical ferrule of 3,175 mm nominal diameter.

The optical alignment of the connector is achieved by a rigid bore sleeve.

It is a non-contacting connector.

The applied configuration is:

- plug/adaptor/plug, or
- plug/socket.

The F-SMA connector is suited for applications in combination with multimode fibres. It includes two types of plugs:

- one (F-SMA I) is a precision type for use with silica fibres from categories A1 / A2 / A3 / A4 (according to IEC 60793-2¹⁾);
- the other (F-SMA II) is a modified type for use with large core plastic optical fibres (POF) of type A4 a / A4 d.

The two plugs have mechanical compatibility with the adaptor and the receptacle.

3 Interfaces

The subsequent pages define the standard interfaces for the type F-SMA connector family.

This standard contains the following standard interfaces:

Interface 22-1: Plug F-SMA I and F-SMA II connector interface	(see Figure 1)
Interface 22-3: Adaptor connector interface	(see Figure 2)
Interface 22-4: Receptacle connector interface	(see Figure 3)

¹⁾ IEC 60793-2, *Optical fibres – Part 2: Product specifications – General*