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**Vmesniki konektorja optičnih vlaken – 13. del: Konektor vrste FC-PC (IEC 61754-13:2006)**

Fibre optic connector interfaces – Part 13: Type FC-PC connector (IEC 61754-13:2006)

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English version

**Fibre optic connector interfaces**  
**Part 13: Type FC-PC connector**  
(IEC 61754-13:2006)

Interfaces de connecteurs  
pour fibres optiques  
Partie 13: Connecteurs de type FC-PC  
(CEI 61754-13:2006)

Steckgesichter von Lichtwellenleiter-  
Steckverbindern  
Teil 13: Bauart FC-PC  
Steckverbinderfamilie  
(IEC 61754-13:2006)

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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/2239/FDIS, future edition 2 of IEC 61754-13, 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 61754-13 on 2006-02-01.

This European Standard supersedes EN 61754-13:1999.

Specific technical changes with respect to EN 61754-13:1999 involve simplification of the system of connector structure and reduction of the number of grades of plug connector interface and pin gauge.

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) 2006-11-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-02-01

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## Endorsement notice

The text of the International Standard IEC 61754-13:2006 was approved by CENELEC as a European Standard without any modification.

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CEI  
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61754-13

Deuxième édition  
Second edition  
2006-02

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**Interfaces de connecteurs  
pour fibres optiques –**

**Partie 13:  
Connecteurs de type FC-PC**

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**Fibre (optical connector) interfaces –**

**Part 13: [SIST EN 61754-13:2006](https://standards.iteh.ai/catalog/standards/sist/3df37222-5093-4845-b3db-5928018d87aa/sist-en-61754-13-2006)**

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**Type FC-PC connector**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## FIBRE OPTIC CONNECTOR INTERFACES –

## Part 13: Type FC-PC connector

## FOREWORD

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International Standard IEC 61754-13 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 1999, of which it constitutes a technical revision. Specific technical changes involve simplification of the system of connector structure and reduction of the number of grades of plug connector interface and pin gauge.

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

FDIS	Report on voting
86B/2239/FDIS	86B/2273/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 standard constitutes Part 13 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 13: Type FC-PC connector

#### 1 Scope

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

#### 2 Description

The parent connector for type FC connector family is a single position plug connector set of plug/adaptor configuration which is characterized by a 2,5 mm nominal ferrule diameter. It includes a thread coupling mechanism, which is spring loaded relative to the ferrule in the direction of the optical axis. The plug has a single male key which may be used to orient and limit the relative position between the connector and the component to which it is mated. The optical alignment mechanism of the connectors is of a rigid bore sleeve or a resilient sleeve style.

#### 3 Interfaces

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The following pages define the standard interfaces for the type FC connector family. This standard contains the following standard interfaces.

- Interface 13-1: Plug connector interface (see Figures 1 and 2)
- Interface 13-2: Adaptor connector interface (see Figures 3 and 4)
- Interface 13-3: Active device receptacle interface (see Figures 5 and 6)

The plug of interface 13-1 has a ferrule with a spherically polished ferrule endface, and realizes physical contact (PC).

The following connectors are intermateable

- Interface 13-1 mates with IEC interface 13-2 and interface 13-3.