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**Vmesniki optičnih konektorjev – 5. del: Konektorska družina tipa MT (IEC 61754-5:2005)**

Fibre optic connector interfaces - Part 5: Type MT connector family (IEC 61754-5:2005)

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EUROPEAN STANDARD

**EN 61754-5**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2005

ICS 33.180.20

Supersedes EN 61754-5:2001

English version

**Fibre optic connector interfaces**  
**Part 5: Type MT connector family**  
(IEC 61754-5:2005)

Interfaces de connecteurs  
pour fibres optiques  
Partie 5: Famille de connecteurs  
de type MT  
(CEI 61754-5:2005)

Steckgesichter von  
Lichtwellenleiter-Steckverbindern  
Teil 5: Steckverbinderfamilie  
der Bauart MT  
(IEC 61754-5:2005)

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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/2126/FDIS, future edition 2 of IEC 61754-5, 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 61754-5 on 2005-10-01.

This European Standard supersedes EN 61754-5:2001.

Specific technical changes involve addition of intermateability dimensions for alignment pins.

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) 2006-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2008-10-01

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### Endorsement notice

The text of the International Standard IEC 61754-5:2005 was approved by CENELEC as a European Standard without any modification.

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NORME  
INTERNATIONALE  
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STANDARD

CEI  
IEC

61754-5

Deuxième édition  
Second edition  
2005-07

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**Interfaces de connecteurs  
pour fibres optiques –**

**Partie 5:  
Famille de connecteurs de type MT**

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**Fibre (optical connector) interfaces –**

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**Type MT connector family**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## FIBRE OPTIC CONNECTOR INTERFACES –

## Part 5: Type MT connector family

## FOREWORD

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International Standard IEC 61754-5 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 1996, of which it constitutes a minor revision. Specific technical changes involve addition of intermateability dimensions for alignment pins.

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

FDIS	Report on voting
86B/2126/FDIS	86B/2168/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.

IEC 61754 consists of multiple parts, under the general title *Fibre optic connector interfaces*.

- Part 1, entitled *General and guidance*, covers general information.
- Subsequent parts contain interfaces for various connector families.

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.

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## FIBRE OPTIC CONNECTOR INTERFACES –

### Part 5: Type MT connector family

#### 1 Scope

This part of IEC 61754 defines the standard interface dimensions for the type MT family of connectors.

#### 2 Description

The parent connector for type MT connector family is a multiway plug connector characterized by a rectangular ferrule, typically 2,5 mm by 6,4 mm. The connector is aligned using two alignment pins and is normally secured by the use of a latching spring.

Each connector interface may be configured in a number of ways as shown in Figure 1. In the parent version, the two alignment pins are free to move within the plug bodies, and hence when unplugged may be located in either plug. The connector may also be configured with one pin fixed in each half (a hermaphroditic variant), or with both pins fixed in one plug (a plug and socket variant). Figure 1 shows which variants are intermateable as follows:

- a) parent plug to parent plug using two free pins;
- b) single pin plug to parent plug using one extra free pin;
- c) two pin plug to parent plug;
- d) single pin plug to single pin plug.

NOTE The two pin plug will not intermate with the single pin plug.

Different connector interfaces will intermate and will correctly align the lower defined number of optical datum targets.

#### 3 Interfaces

This standard contains the following standard interface:

Interface 5-1 MT interface dimensions