

# INTERNATIONAL STANDARD

**IEC**  
**61754-6-1**

First edition  
2003-02

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**Fibre optic connector interfaces –**

**Part 6-1:**

**Type MU connector family –**

**Simplified receptacle MU-PC connector interfaces**

*Interface de connecteurs pour fibres optiques –*

*Partie 6-1:*

*Famille de connecteurs de type MU –*

*Socle simplifié pour les interfaces de connecteur MU-PC*



Reference number  
IEC 61754-6-1:2003(E)

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International Electrotechnical Commission  
Международная Электротехническая Комиссия

PRICE CODE

**H**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## FIBRE OPTIC CONNECTOR INTERFACES

**Part 6-1: Type MU connector family –  
Simplified receptacle MU-PC connector interfaces**

## FOREWORD

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International Standard IEC 61754-6-1 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/1786/FDIS	86B/1836/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 2007. At this date, the publication will be

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- withdrawn;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

## FIBRE OPTIC CONNECTOR INTERFACES –

### Part 6-1: Type MU connector family – Simplified receptacle MU-PC connector interfaces

#### 1 Scope

This part of IEC 61754 defines the standard interface dimensions of simplified receptacles for the type MU family of connectors.

#### 2 Description

The parent connector for the type MU connector family is a miniature single-position plug which is characterized by one or more cylindrical, spring-loaded butting ferrules of a 1,25 mm typical diameter, and a push-pull coupling mechanism.

The simplified receptacles whose standard interface dimensions are defined in this part are made up of simplified receptacle housings and simplified plugs. The simplified receptacle housings are used to retain the connector plug and mechanically maintain the optical datum target of the plugs at a defined position within the simplified receptacle housings. A spring is not included in the simplified plug. The simplified plug is removed with the aid of a tool. The optical alignment mechanism of the connector is of a resilient sleeve style.

#### 3 Interfaces

This standard contains the following standard interfaces:

Interface 6-14: simplified receptacles housings interface

Interface 6-15: simplified plugs interface

The simplified plug has a ferrule with a spherical polished ferrule endface, and realizes physical contact (PC).

The following interfaces are intermateable.

Interface 6-14 mates with interface 6-15.