

INTERNATIONAL STANDARD

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**Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces –
Part 6-100: Type MU connector family – Simplified receptacle MU-PC connector interfaces**

**Dispositifs d'interconnexion et composants passifs à fibres optiques –
Interfaces de connecteurs à fibres optiques –
Partie 6-100: Famille de connecteurs de type MU – Interfaces de connecteur MU-PC à embase simplifiée**



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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Description	5
4 Interfaces	6
4.1 General.....	6
4.2 Intermateability	6
4.3 Interfaces and dimensions	6
Annex A (informative) Example of an intermateable set including a simplified receptacle.....	12
Bibliography.....	13
Figure 1 – Simplified receptacle housing interface	7
Figure 2 – Pin gauge for adaptor.....	9
Figure 3 – Simplified plug interface.....	10
Figure A.1 – Example of an intermateable set including a simplified receptacle	12
Table 1 – Intermateability of the interface	6
Table 2 – Dimensions of the simplified receptacles housings interface.....	8
Table 3 – Grade of the simplified receptacles housings interface	8
Table 4 – Pin gauge dimensions	9
Table 5 – Dimensions of the simplified plug interface.....	11
Table 6 – Grade of the simplified plug interface	11

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING
DEVICES AND PASSIVE COMPONENTS –
FIBRE OPTIC CONNECTOR INTERFACES –****Part 6-100: Type MU connector family –
Simplified receptacle MU-PC connector interfaces**

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International Standard IEC 61754-6-100 has been prepared by subcommittee SC86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This first edition of IEC 61754-6-100 cancels and replaces the first edition of IEC 61754-6-1 published in 2003. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) change of the standard number;
- b) change of the interface number;
- c) addition of an intermateability table;

- d) change in the pin gauge specification;
- e) change in the specification of the ferrule outside diameter.
- f) addition of a table of the ferrule grade including multimode.

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

FDIS	Report on voting
86B/3939/FDIS	86B/3960/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.

A list of all parts in the IEC 61754 series, published under the general title *Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC CONNECTOR INTERFACES –

Part 6-100: Type MU connector family – Simplified receptacle MU-PC connector interfaces

1 Scope

This part of IEC 61754 defines the standard interface dimensions of simplified receptacle dimensions for the type MU connector family. The receptacle assembly consists of a simplified receptacle housing and a simplified plug.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61300-3-22, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-22: Examinations and measurements – Ferrule compression force*

IEC 61754-6:2013, *Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 6: Type MU connector family*

IEC 61755-3-1, *Fibre optic connector optical interfaces – Part 3-1: Optical interface, 2,5 mm and 1,25 mm diameter cylindrical full zirconia PC ferrule, single mode fibre*

3 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.

- a) The simplified receptacles whose standard interface dimensions are defined in this part of IEC 61754, are made up of simplified receptacle housings and simplified plugs.
- b) 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.
- c) A spring is not included in the simplified plug.
- d) The simplified plug is removed with the aid of a tool.
- e) The optical alignment mechanism of the connector is of a resilient sleeve style.
- f) The simplified receptacle housings are to be mated with the plug specified in IEC 61754-6:2013, Figure 1 which is the counterpart of the simplified plug.