

INTERNATIONAL STANDARD

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**Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces –
Part 6: Type MU connector family**

**Dispositifs d'interconnexion et composants passifs à fibres optiques –
Interfaces de connecteurs pour fibres optiques –
Partie 6: Famille de connecteurs de type MU**





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Partie 6: Famille de connecteurs de type MU**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING
DEVICES AND PASSIVE COMPONENTS –
FIBRE OPTIC CONNECTOR INTERFACES –****Part 6: Type MU connector family**

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International Standard IEC 61754-6 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 1997 and constitutes a technical revision.

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

- a) addition of standard references;
- b) revision of intermateability.

This bilingual version (2016-05) corresponds to the monolingual English version, published in 2013-07.

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

FDIS	Report on voting
86B/3627/FDIS	86B/3662/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.

The French version of this standard has not been voted upon.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61754 series, 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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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC CONNECTOR INTERFACES –

Part 6: Type MU connector family

1 Scope

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

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 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*

IEC 61755-3-2, *Fibre optic connector optical interfaces – Part 3-2: Optical interface, 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules for 8 degrees angled-PC single mode fibres*

3 Description

The parent connector for type MU connector family is a miniature single-position plug which is characterized by a cylindrical, spring-loaded butting ferrule(s) of a 1,25 mm typical diameter, and a push-pull coupling mechanism. The optical alignment mechanism of the connectors is of a rigid hole or a resilient sleeve style.

This part 6 type MU connector family defines the standard interface dimensions of active device receptacles for the type MU connectors. The receptacles are used to retain the connector plugs and mechanically maintain the optical datum target of the plugs at a defined position within the receptacle housings.

4 Interfaces

The standard contains the following standard interfaces.

- Interface IEC 61754-6-1: Simplex plug connector interface – Push/pull (See Figure 1)
- Interface IEC 61754-6-2: 4,5 mm duplex plug connector interface – Push/pull (See Figure 2)
- Interface IEC 61754-6-3: Simplex adaptor connector interface – Push/pull (See Figure 3)
- Interface IEC 61754-6-4: 4,5 mm duplex adaptor connector interface – Push/pull (see Figure 5)
- Interface IEC 61754-6-5: 8-port adaptor connector interface – Push/pull (See Figure 6)
- Interface IEC 61754-6-6: Plug connector interface – for printed board housings (See Figure 7)
- Interface IEC 61754-6-7: Sleeve holder interface – for printed board housings (See Figure 8)
- Interface IEC 61754-6-8: 2-port backplane housing interface – Self-retentive (See Figure 9)