

# INTERNATIONAL STANDARD



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

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

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

This third edition cancels and replaces the second edition published in 2013 and constitutes a technical revision.

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

- a) the test method IEC 61300-3-22 for the compression force of the ferrule was added;
- b) Annex D (informative) with cut out dimension requirements for testing the strength of mounted adaptors was added.

The text of this International Standard is based on the following documents:

Draft	Report on voting
86B/4562/FDIS	86B/4585/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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.

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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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- withdrawn,
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- amended.

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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~~ specifies the standard interface dimensions for type MU family of connectors.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. 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~~

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 61754-1, Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 1: General and guidance

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61754-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

### 4 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 document 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.

## 5 Interfaces

This document contains the standard interfaces showed in Table 1.

**Table 1 – 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)
Interface IEC 61754-6-9	2-port printed board housing interface – Self-retentive (see Figure 10)
Interface IEC 61754-6-10	8-port backplane housing interface – Self-retentive (see Figure 11)
Interface IEC 61754-6-11	8-port printed board housing interface – Self-retentive (see Figure 12)
Interface IEC 61754-6-12	Simplex active device receptacle interface – for physical contact (PC) connector plug (see Figure 13)
Interface IEC 61754-6-13	4,5 mm duplex active device receptacle interface – for PC connector plug (see Figure 15)
Interface IEC 61754-6-14	6,25 mm duplex active device receptacle interface – for PC connector plug (see Figure 17)
Interface IEC 61754-6-15	Plug connector interface – for printed board housings, angled PC (APC) 8 degrees (see Figure 19)
Interface IEC 61754-6-16	Simplex plug connector interface – Push/pull, APC 8 degrees (see Figure 20)
Interface IEC 61754-6-17	4,5 mm duplex plug connector interface – Push/pull, APC 8 degrees (see Figure 21)
Interface IEC 61754-6-18	6,25 mm duplex plug connector interface – Push/pull, APC 8 degrees (see Figure 22)
Interface IEC 61754-6-19	6,25 mm duplex plug connector interface – Push/pull (see Figure 23)
Interface IEC 61754-6-20	6,25 mm duplex adaptor connector interface – Push/pull (see Figure 24)
Interface IEC 61754-6-21	Horizontal duplex plug connector interface – Push/pull (see Figure 25)
Interface IEC 61754-6-22	Horizontal duplex adaptor connector interface – Push/pull (see Figure 26)

The plugs of interfaces IEC 61754-6-1, IEC 61754-6-2, IEC 61754-6-6, IEC 61754-6-19 and IEC 61754-6-21 have a ferrule(s) with a spherically polished endface, and realize physical contact (PC). The plugs of interfaces IEC 61754-6-15, IEC 61754-6-16, IEC 61754-6-17 and IEC 61754-6-18 have a ferrule(s) with a spherically polished angled endface and realize angled PC (APC).

The type MU connector family comprises two types of connector set: MU-A connector set (see Annex A) and MU-B connector set (see Annex B). The MU-A connector set is a plug/adaptor configuration with a push-pull coupling mechanism. The MU-B connector set is a plug-in type back-plane connector configuration which is plug/backplane and printed board housings/plug for printed board housing/sleeve holder configuration and is equipped with a self-retentive mechanism.

The type MU-A connector set consists of simplex and duplex plugs, and simplex, duplex and 8-port adaptors. The plugs are common to the backplane connector housings of the type MU-B connector set.

The type MU-B connector set consists of 2-port and 8-port backplane and printed board connector housings, simplex and duplex plugs, plug for printed board connector housings, and sleeve holder. The plug for printed board connector housing is used as a jack together with the sleeve holder. The jack is attached into the printed board connector housing.

Table 2, Table 3 and Table 4 show the intermateability of the standard interfaces. It shall be noted however that in order to obtain the designated optical performance, any plug shall be connected to a counterpart plug whose ferrule end is polished to the same condition.

**Table 2 – Intermateability of MU-A connectors-set**

Plugs	Adaptors				
	61754-6-3	61754-6-4	61754-6-5	61754-6-20	61754-6-22
61754-6-1	Mate	Mate	Mate	Mate	Mate
61754-6-2	Not mate	Mate	Mate	Not mate	Not mate
61754-6-16	Mate	Mate	Mate	Mate	Mate
61754-6-17	Not mate	Mate	Mate	Not mate	Not mate
61754-6-18	Not mate	Not mate	Not mate	Mate	Not mate
61754-6-19	Not mate	Not mate	Not mate	Mate	Not mate
61754-6-21	Not mate	Not mate	Not mate	Not mate	Mate

**Table 3 – Intermateability of MU-B connectors-set**

Plugs	Connector housings			
	Backplane connector housing		Printed board connector housing	
	61754-6-8	61754-6-10	61754-6-9	61754-6-11
61754-6-1	Mate	Mate	Not mate	Not mate
61754-6-2	Mate	Mate	Not mate	Not mate
61754-6-6 with 61754-6-7	Not mate	Not mate	Mate	Mate
61754-6-15 with 61754-6-7	Not mate	Not mate	Mate	Mate
61754-6-16	Mate	Mate	Not mate	Not mate
61754-6-17	Mate	Mate	Not mate	Not mate
61754-6-18	Not mate	Not mate	Not mate	Not mate
61754-6-19	Not mate	Not mate	Not mate	Not mate
61754-6-21	Not mate	Not mate	Not mate	Not mate

**Table 4 – Intermateability of MU receptacles**

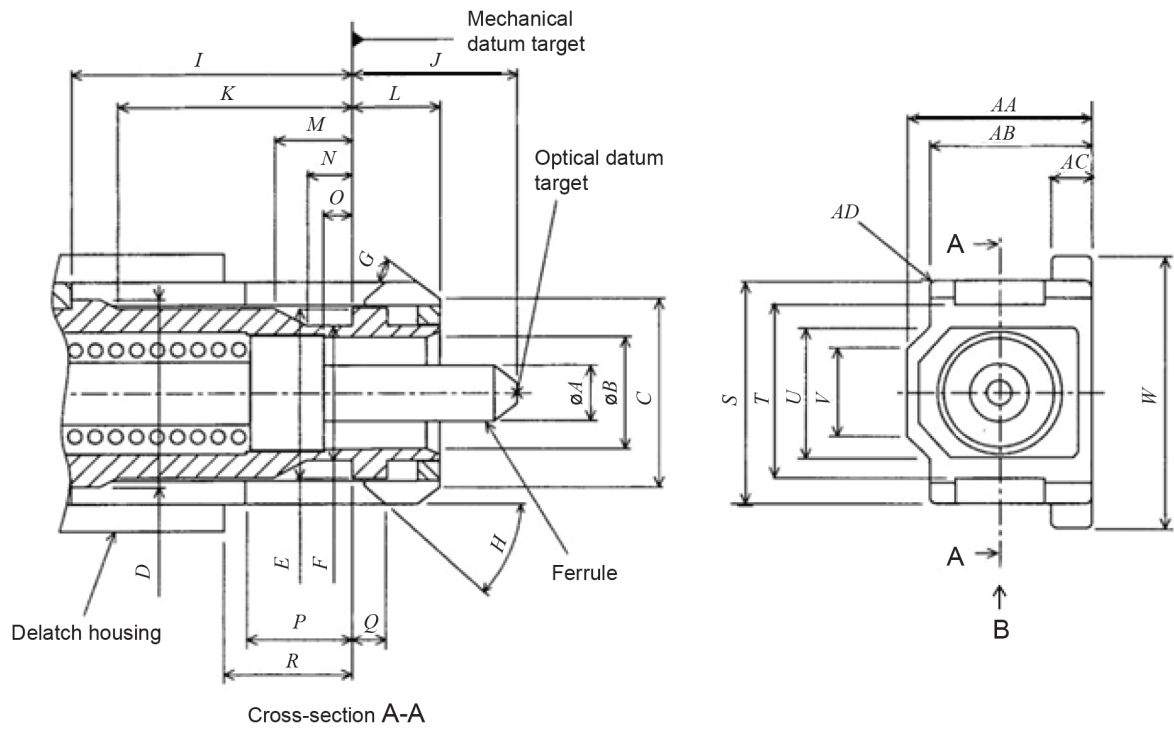
Plugs	Receptacles		
	61754-6-12	61754-6-13	61754-6-14
61754-6-1	Mate	Mate	Mate
61754-6-2	Not mate	Mate	Not mate
61754-6-16	Not mate	Not mate	Not mate
61754-6-17	Not mate	Not mate	Not mate
61754-6-18	Not mate	Not mate	Not mate
61754-6-19	Not mate	Not mate	Mate
61754-6-21	Not mate	Not mate	Not mate

Figure 1 is an example of a simplex plug connector interface. Table 5 gives dimensions of the simplex plug connector interface and Table 6 gives the grade of the simplex plug connector interface.

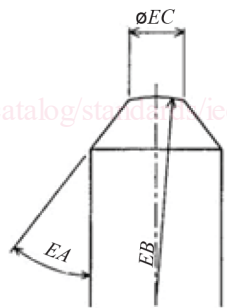
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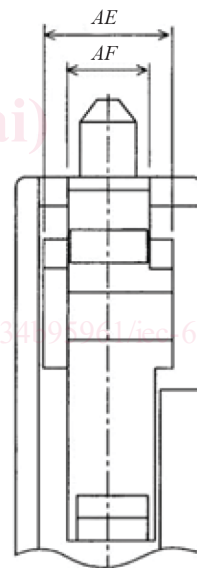
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Ferrule endface geometry



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Figure 1 – Simplex plug connector interface – Push/pull

**Table 5 – Dimensions of the simplex plug connector interface**

Reference	Dimensions		Remarks
	Minimum	Maximum	
<i>A</i>	1,249-5 mm See Table 6		a
<i>B</i>	2,6 mm	2,7 mm	
<i>C</i>	4,6 mm	4,8 mm	
<i>D</i>	4,65 mm	4,75 mm	
<i>E</i>	4,3 mm	4,4 mm	
<i>F</i>	3,3 mm	3,4 mm	
<i>G</i>	25°	35°	Angle, unit in degrees
<i>H</i>	25°	35°	Angle, unit in degrees
<i>I</i>	6,55 mm	–	b
<i>J</i>	4,2 mm	4,5 mm	c
<i>K</i>	5,5 mm	–	
<i>L</i>	2,4 mm	2,5 mm	
<i>M</i>	1,5 mm	–	
<i>N</i>	0,6 mm	–	
<i>O</i>	0,5 mm	–	
<i>P</i>	2,6 mm	–	b
<i>Q</i>	1 mm	1,1 mm	b d
<i>R</i>	2,65 mm	2,9 mm	b
<i>S</i>	5,5 mm	5,6 mm	
<i>T</i>	4,3 mm	4,5 mm	
<i>U</i>	–	3,7 mm	
<i>V</i>	–	2,4 mm	
<i>W</i>	6,5 mm	6,6 mm	
<i>AA</i>	4,3 mm	4,4 mm	
<i>AB</i>	3,85 mm	3,95 mm	
<i>AC</i>	0,7 mm	0,9 mm	
<i>AD</i>	0,2 mm	–	Radius
<i>AE</i>	3 mm	–	
<i>AF</i>	2,2 mm	2,3 mm	
<i>EA</i>	32,5°	45°	Angle, unit in degrees <sup>e</sup>
<i>EB</i>	5 mm	30 mm	Radius <sup>f</sup>
<i>EC</i>	0,45 mm	0,73 mm	Diameter

- <sup>a</sup> A chamfer or radius is allowed to a maximum depth of 0,5 mm from the ferrule endface.
- <sup>b</sup> The delatch housing shall be movable to the right ~~and~~ or left ~~directions~~. Dimensions *L*, *M* and *V* are given when the ~~coupling sleeve is moved in its most right direction position~~ delatch housing is at the furthest right.
- <sup>c</sup> Dimension *J* is given for the plug endface when not mated. ~~It is noticed that~~ The ferrule is movable by a certain axial compression force with direct contacting endfaces, and therefore dimension *J* is variable. Ferrule compression force shall be 5,5 N to 6,5 N when the position of the optical datum target from the mechanical datum target is moved in the range of 3,9 mm to 4,1 mm. In addition, dimension *J* shall become less than 3,25 mm with a relatively large axial compression force. The compression force shall be measured according to IEC 61300-3-22.
- <sup>d</sup> ~~The right side position of Q shall become the left side position to the mechanical datum target when the coupling sleeve is moved to its most left direction position.~~ *Q* is to the right of the mechanical datum target when the delatch housing is to the right (connected state) and to the left of the mechanical datum target when the delatch housing is to the left (disconnected state).
- <sup>e</sup> 40° to 45° are desirable to minimize debris for backplane connectors.
- <sup>f</sup> Dome eccentricity of the spherically polished ferrule endface shall be less than ~~70~~ 50 μm.