
**Spojni vmesniki optičnih vlaken – 6-1 . del: Družina konektorjev tipa MU;
poenostavljen sprejemljiv MU-PC konektorski vmesnik (IEC 61754-6-1:2003)***

Fibre optic connector interfaces - Part 6-1: Type MU connector family - Simplified
receptable MU-PC connector interfaces (IEC 61754-6-1:2003)

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EUROPEAN STANDARD

EN 61754-6-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2003

ICS 33.180.20

English version

Fibre optic connector interfaces
Part 6-1: Type MU connector family -
Simplified receptacle MU-PC connector interfaces
(IEC 61754-6-1:2003)

Interfaces de connecteurs
pour fibres optiques
Partie 6-1: Famille de connecteurs
de type MU -
Socle simplifié pour les interfaces
de connecteur MU-PC
(CEI 61754-6-1:2003)

Steckgesichter von LWL-Steckverbindern
Teil 6-1: Steckverbinderfamilie
der Bauart MU -
Steckgesichter von vereinfachten
MU-PC Anschlussbuchsen
(IEC 61754-6-1:2003)

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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/1786/FDIS, future edition 1 of IEC 61754-6-1, 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 61754-6-1 on 2003-04-01.

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) 2004-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2006-04-01

Endorsement notice

The text of the International Standard IEC 61754-6-1:2003 was approved by CENELEC as a European Standard without any modification.

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INTERNATIONAL STANDARD

IEC 61754-6-1

First edition
2003-02

Fibre optic connector interfaces –

Part 6-1:

Type MU connector family –

Simplified receptacle MU-PC connector interfaces

iTeh STANDARD PREVIEW

Interface de connecteurs pour fibres optiques –

Partie 6-1: [SIST EN 61754-6-1:2004](https://standards.iteh.ai/SIST/EN/61754-6-1/2004)

<https://standards.iteh.ai/SIST/EN/61754-6-1/2004> Famille de connecteurs de type MU

Socle simplifié pour les interfaces de connecteur MU-PC

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FIBRE OPTIC CONNECTOR INTERFACES

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

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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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

[SIST EN 61754-6-1:2004](https://standards.iteh.ai/catalog/standards/sist/524d7fa2-80b9-45fa-ac1c-b81bd461f154/sist-en-61754-6-1-2004)

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This standard contains the following standard interfaces:

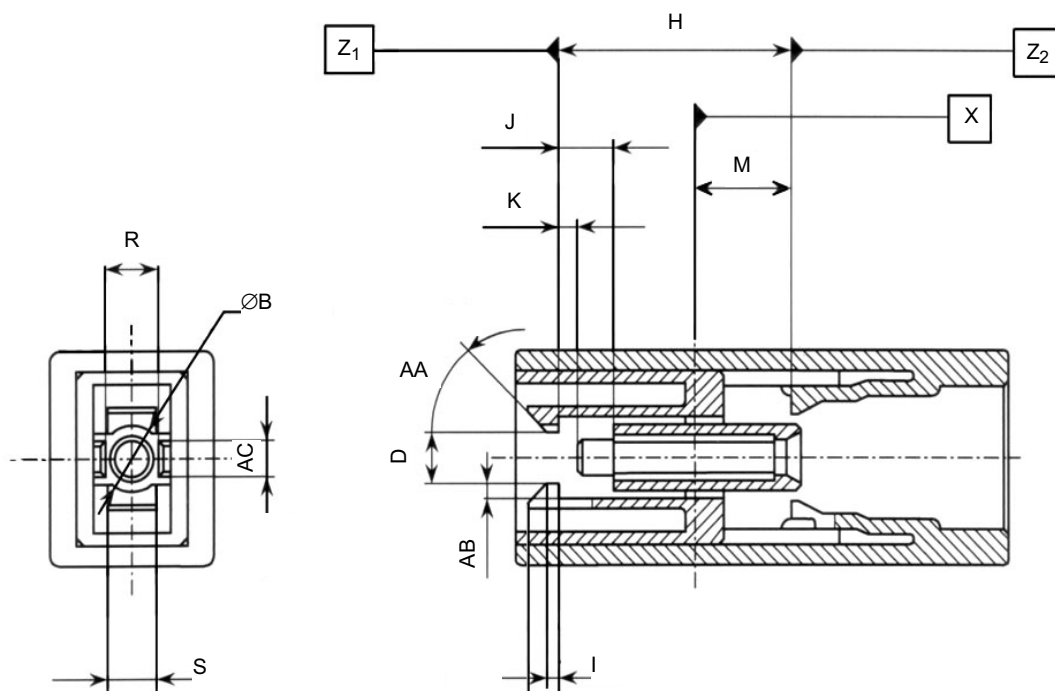
Interface 6-14: simplified receptacles housings interface

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.

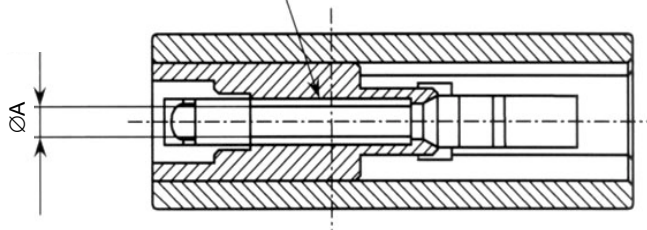
Interface 6-14 mates with interface 6-15.



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Resilient sleeve (see Note 14, Table 1b)

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IEC 018/03

Figure 1a – Simplified receptacle housings interface

Table 1a – Dimensions of the simplified receptacle housings interface

Reference	Dimensions mm		Notes
	Minimum	Maximum	
A			Diameter, see table 1b
B	2,3	2,7	Diameter
D	1,8	2,2	3
H	9,3	9,7	4
I	0,2	0,4	
J	2,1	2,5	
K	0,8	1,0	
L	1,2	1,4	
M	3,9	4,1	Reference
R	2,35	2,45	
S	1,8	2,0	
AA	30°	50°	
AB	0,4	0,65	
AC	1,15	1,25	

NOTE 1 Plane X is the optical reference plane; it corresponds to the optical datum target in IEC 61754-6, Figure 1.

NOTE 2 The right-direction part from the optical reference plane X is the same structure and dimension as in IEC 61754-6, Figure 3a.

NOTE 3 The dimension D shall become greater than 3,05 mm when a plug is coupled to or removed from the simplified receptacle housing.

NOTE 4 Plane Z1, Z2 is the mechanical reference plane; plane Z1 corresponds to the plug plane Z in Figure 2 and plane Z2 corresponds to plane X in IEC 61754-6, Figure 1.