



# SLOVENSKI STANDARD

## SIST EN 61754-32:2017

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**Optični spojni elementi in pasivne komponente - Vmesniki optičnih konektorjev - 32. del: Družina konektorjev vrste DiaLink (IEC 61754-32:2016)**

Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 32: Type DiaLink connector family (IEC 61754-32:2016)

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EUROPEAN STANDARD

**EN 61754-32**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

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English Version

Fibre optic interconnecting devices and passive components -  
Fibre optic connector interfaces -  
Part 32: Type DiaLink connector family  
(IEC 61754-32:2016)

Dispositifs d'interconnexion et composants passifs fibroniques -  
Interfaces de connecteurs fibroniques -  
Partie 32: Famille de connecteurs de type DiaLink  
(IEC 61754-32:2016)

Lichtwellenleiter - Verbindungselemente und passive Bauteile -  
Steckgesichter von Lichtwellenleiter-Steckverbindern -  
Teil 32: Steckverbinderfamilie der Bauart DiaLink  
(IEC 61754-32:2016)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN 61754-32:2016****European foreword**

The text of document 86B/4005/FDIS, future edition 1 of IEC 61754-32, 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 approved by CENELEC as EN 61754-32:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-07-31
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-10-31

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60794-2-50	NOTE	Harmonized as EN 60794-2-50.
IEC 61755	NOTE	Harmonized in EN 61755 series.
ISO 8015:2011	NOTE	Harmonized as EN ISO 8015:2011 (not modified).



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 32: Type DiaLink connector family**

**Dispositifs d'interconnexion et composants passifs fibroniques – Interfaces de connecteurs fibroniques – Partie 32: Famille de connecteurs de type DiaLink**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

**Part 32: Type DiaLink connector family**

**FOREWORD**

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International Standard IEC 61754-32 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/4005/FDIS	86B/4021/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 the 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.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

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## INTRODUCTION

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning IEC 61754-32.

IEC takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the IEC that he/she is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with IEC. Information may be obtained from:

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

## Part 32: Type DiaLink connector family

### 1 Scope

This part of IEC 61754 defines the standard interface dimensions for the type DiaLink 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.

There are no normative references in this document.

### 3 Description

The parent connector for the type DiaLink connector family is a simplex connector which is characterized by a 1,25 mm nominal ferrule diameter. It includes a push-pull coupling mechanism, which is spring-loaded relative to the ferrule in the direction of the optical axis. To provide adequate contact force, one of the parts containing the ferrule is spring-loaded. The other part contains a fixed ferrule. The optical alignment mechanism of the connectors is a resilient sleeve style and is attached directly to the fixed ferrule interface.

Drawings and dimensions provided consist of those minimum features that are functionally critical during the mating and unmating sequences of counterpart components.

### 4 Interfaces

This document defines the standard interfaces for the type DiaLink connector family.

This document contains the following standard interfaces:

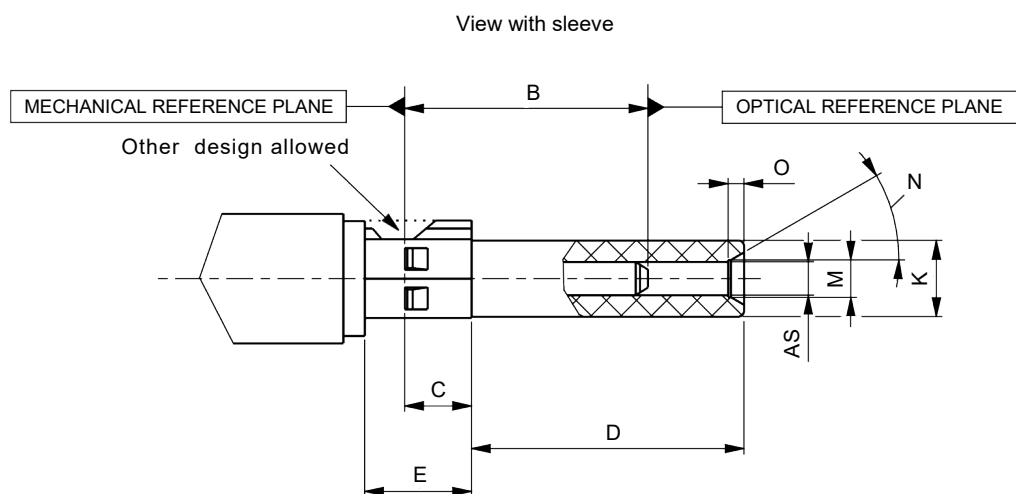
- IEC 61754-32-1 Fixed ferrule plug connector PC-interface (plug connector)
- IEC 61754-32-2 Spring-loaded ferrule plug connector PC-interface (socket connector)
- IEC 61754-32-3 Fixed ferrule plug connector interface – APC 8° (plug connector)
- IEC 61754-32-4 Spring-loaded ferrule plug connector interface – APC 8° (socket connector)

The document interfaces given in Table 1 are intermateable.

**Table 1 – Intermateability between plug connectors**

Plug interfaces	IEC 61754-32-1	IEC61754-32-2	IEC61754-32-3	IEC61754-32-4
IEC 61754-32-1	-	Mate	Not mate	Not mate
IEC 61754-32-2	Mate	-	Not mate	Not mate
IEC 61754-32-3	Not mate	Not mate	-	Mate
IEC 61754-32-4	Not mate	Not mate	Mate	-

Figures 1 and 2 show a fixed ferrule interface for the plug connector with and without sleeve, respectively. Figures 3 and 4 show APC and PC end face geometry, respectively. Table 2 gives dimensions of a fixed ferrule interface for the plug connector. Table 3 shows ferrule grades for connector interfaces. Figure 5 shows a pin gauge for a fixed ferrule interface for a plug connector with sleeve and Table 4 gives pin gauge dimensions.

**Figure 1 – Fixed ferrule interface (plug connector) view with sleeve**