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



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 61754-32:2016 sisaldab Euroopa standardi EN 61754-32:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 61754-32:2016 consists of the English text of the European standard EN 61754-32:2016.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 23.12.2016.	Date of Availability of the European standard is 23.12.2016.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile <u>standardiosakond@evs.ee</u>.

ICS 33.180.20

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardikeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega: Koduleht www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:

Homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 61754-32

December 2016

ICS 33.180.20

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)

This European Standard was approved by CENELEC on 2016-10-31. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

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
- latest date by which the national standards conflicting with (dow) 2019-10-31 the document have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 61754-32:2016 was approved by CENELEC as a European Standard without any modification.

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).

CONTENTS

FOREWORD	3
INTRODUCTION	5
1 Scope	3
2 Normative references	3
3 Description	3
4 Interfaces	3
Annex A (informative) Outline and maximum dimensions	3
Annex B (informative) Protection cap dimensions	5
Annex C (informative) Version of the plug connector interface without sleeve16	3
Bibliography1	7
Figure 1 – Fixed ferrule interface (plug connector) view with sleeve	7
Figure 2 – Fixed ferrule interface (plug connector) view without sleeve	3
Figure 3 – APC end face geometry	3
Figure 4 – PC end face geometry	3
Figure 5 – Pin gauge for a fixed ferrule interface (plug connector) with sleeve10)
Figure 6 – Spring-loaded ferrule interface (socket connector)	1
Figure A.1 – Outline and maximum dimensions (version with a locking mechanism)13	3
Figure A.2 – Fixed ferrule interface (plug connector)13	3
Figure A.3 – Spring-loaded ferrule interface (socket connector)14	1
Figure B.1 – Fixed ferrule interface with a pulling rope protection cap19	5
Figure C.1 – Plug connector interface without sleeve16	3
Table 1 – Intermateability between plug connectors	7
Table 2 – Dimensions of a fixed ferrule interface (plug connector)	
Table 3 – Ferrule grade table for a connector interface)
Table 4 – Pin gauge dimensions10)
Table 5 – Dimensions of a spring-loaded ferrule interface (socket connector)12	2
Table A.1 – Outline and maximum dimensions14	1
Table B.1 – Dimensions of a fixed ferrule interface with a pulling rope protection cap15	5
O,	
0,	

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:

DIAMOND SA Via dei Patrizi 5 6616 Losone Switzerland

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. IEC shall not be held responsible for identifying any or all such patent rights.

ISO (www.iso.org/patents) and IEC (http://www.iec.ch/tctools/patent_decl.htm) maintain online data bases of patents relevant to their standards. Users are encouraged to consult the data bases for the most up to date information concerning patents.

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.