Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 34: Type URM connector family



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 61754-34:2016 sisaldab Euroopa standardi EN 61754-34:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 61754-34:2016 consists of the English text of the European standard EN 61754-34:2016.
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 61754-34

December 2016

ICS 33.180.20

English Version

Fibre optic interconnecting devices and passive components Fibre optic connector interfaces Part 34: Type URM connector family
(IEC 61754-34:2016)

Dispositifs d'interconnexion et composants passifs fibroniques -Interfaces de connecteurs fibroniques -Partie 34: Famille de connecteurs de type URM (IEC 61754-34:2016) Lichtwellenleiter - Verbindungselemente und passive Bauteile -Steckgesichter von Lichtwellenleiter-Steckverbindern -Teil 34: Steckverbinderfamilie der Bauart URM (IEC 61754-34:2016)

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/3966/CDV, future edition 1 of IEC 61754-34, 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 61754-34:2016.

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 61754-34.2016 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 60793-2-50	NOTE	Harmonized as EN 60793-2-50.
ISO 1101	NOTE	Harmonized as EN ISO 1101.
ISO 8015	NOTE	Harmonized as EN ISO 8015.
		6,
		0.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u> Ye	<u>ear</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60794-2-50 -		Optical fibre cables - Part 2-50: Indoor cables - Family specification for simplex and duplex cables for use in terminated cable assemblies	EN 60794-2-50	-
IEC 61754-1 -		Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 1: General and guidance	EN 61754-1	-
IEC 61755-3 se	eries	Fibre optic interconnecting devices and passive components - Connector optical interfaces	EN 61755-3	series

CONTENTS

FOF	REWORD	3
INT	RODUCTION	5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Description	6
5	Interfaces	6
6	Two-way plug optical interface	7
7	Eight-way plug optical interface	13
8	Ferrule grade dimensions	19
9	Two-way adaptor interface	19
10	Eight-way adaptor interface	22
11	Pin gauge for adaptor	26
	nex A (informative) Additional adaptor dimensional information	
Bibl	liography	30
Figu	ure 1 – Two-way plug connector interface	9
Figu	ure 2 – Two-way plug connector ferrules	10
Figu	ure 3 – Two-way plug connector APC angle	11
Figu	ure 4 – Two-way plug connector interface alignment	11
Figu	ure 5 – Eight-way plug connector interface	15
Figu	ure 6 – Detail 01 of Figure 5 – expanded view drawings not to scale	16
_	ure 7 – Eight-way plug connector interface APC angle	
Figu	ure 8 – Eight-way plug interface alignment	17
	ure 9 – Two-way adaptor interface	
Figu	ure 10 – Eight-way adaptor interface	25
Figu	ure 11 – Pin gauge for adaptor	27
Figu	ure A.1 – Outline dimensions – two-way adaptor	28
Figu	ure A.1 – Outline dimensions – two-way adaptorure A.2 – Outline dimensions – eight-way adaptor	29
	ole 1 – Intermateability between plugs and adaptors interfaces defined in this ument	7
Tab	le 2 – Dimensions of the two-way plug connector interface	12
Tab	le 3 – Dimensions of the eight-way plug connector interface	18
Tab	le 4 – Plug connector interface – ferrule grade	19
Tab	le 5 – Dimensions of the two-way adaptor interface	22
Tab	le 6 – Dimensions of the eight-way adaptor interface	26
Tab	le 7 – Dimensions of the pin gauge	27
Tab	le A.1 – Outline dimensions – two-way adaptor	28
Tab	ole A.2 – Outline dimensions – eight-way adaptor	29

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 61754-34.

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:

EUROMICRON Werkzeuge GmbH Zur Dornheck 32-34 35764 Sinn-Fleisbach Germany

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.