

Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 24: Type SC-RJ connector family

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NATIONAL FOREWORD

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Standard on kinnitatud Eesti Standardikeskuse 28.02.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

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This Estonian standard EVS-EN 61754-24:2010 consists of the English text of the European standard EN 61754-24:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 28.02.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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ICS 33.180

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**Fibre optic interconnecting devices and passive components -
Fibre optic connector interfaces -
Part 24: Type SC-RJ connector family
(IEC 61754-24:2009)**

Dispositifs d'interconnexion
et composants passifs à fibres optiques -
Interfaces de connecteurs
pour fibres optiques -
Partie 24: Famille de connecteurs
de type SC-RJ
(CEI 61754-24:2009)

Lichtwellenleiter -
Verbindungselemente
und passive Bauteile -
Steckgesichter von Lichtwellenleiter-
Steckverbindern -
Teil 24: Steckverbinderfamilie
der Bauart SC-RJ
(IEC 61754-24:2009)

This European Standard was approved by CENELEC on 2009-12-01. 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.

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CENELEC

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

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 86B/2884/FDIS, future edition 1 of IEC 61754-24, 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 61754-24 on 2009-12-01.

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) 2010-09-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2012-12-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61754-24:2009 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 60793-2-30	NOTE Harmonized as EN 60793-2-30 (not modified).
IEC 60793-2-40	NOTE Harmonized as EN 60793-2-40 (not modified).
IEC 61753	NOTE Harmonized in EN 61753 series (not modified).
IEC 61754-1	NOTE Harmonized as EN 61754-1 (not modified).
IEC 61755-1	NOTE Harmonized as EN 61755-1 (not modified).
ISO 5456-2	NOTE Harmonized as EN ISO 5456-2 (not modified).

Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

The following referenced documents are indispensable for the application 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.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60603-7-1	-	Connectors for electronic equipment - Part 7-1: Detail specification for 8-way, shielded free and fixed connectors	EN 60603-7-1	-
IEC 61076-3-106	-	Connectors for electronic equipment - Product requirements - Part 3-106: Rectangular connectors - Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface	EN 61076-3-106	-
IEC 61754-4	-	Fibre optic connector interfaces - Part 4: Type SC connector family	EN 61754-4	-

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INTRODUCTION

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

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 a plug connector interface, adaptor connector interface and active connector interface given in Clause 4.

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

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

Part 24: Type SC-RJ connector family

1 Scope

This part of IEC 61754 defines the standard interface dimensions for the type SC-RJ family of connectors.

2 Normative references

The following referenced documents are indispensable for the application 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 60603-7-1, *Connectors for electronic equipment – Part 7-1:Detail specification for 8-way, shielded free and fixed connectors with common mating features, with assessed quality*

IEC 61076-3-106, *Connectors for electronic equipment – Product requirements – Part 3-106: Rectangular connectors – Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface*

IEC 61754-4, *Fibre optic connector interfaces – Part 4 :Type SC connector family*

3 Description

The parent connector for type SC-RJ connector family is a duplex plug connector set of plug/adaptor configuration which is characterised by 2,5 mm nominal ferrule diameter. The connector includes a push-pull coupling mechanism, which is spring loaded relative to the ferrules in the direction of optical axes. The plug has three male keys. Two of them in each case are used to orient and limit the relative positions between the two ferrules and the components (SC simplex connector) to which they are mated and one key which defines the general orientation of the duplex connector. The optical alignment mechanism of the adaptor is of a resilient sleeve style. For the active device interface, the alignment mechanism can be of both type: rigid bore or resilient sleeve.

4 Interfaces

4.1 General

This standard contains the following standard interfaces for the type SC-RJ connector family as follows: