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Standards

Irish Standard
I.S. EN 61754-24:2010

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

I.S. EN 61754-24:2010

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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)

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CENELEC

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

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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.

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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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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING
DEVICES AND PASSIVE COMPONENTS –
FIBRE OPTIC CONNECTOR INTERFACES –**
Part 24: Type SC-RJ connector family

FOREWORD

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International Standard IEC 61754-24 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/2884/FDIS	86B/2919/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 parts of 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.

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Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site 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.

A bilingual version of this publication may be issued at a later date.

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.

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:

Reichle & De-Massari AG, Dept. of Standardization & Patent, Binzstrasse 31 CH-8622 Wetzikon ZH, Switzerland

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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:

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