SLOVENSKI STANDARD

SIST EN 61754-19:2004

september 2004

Konektorski vmesniki optičnihvlaken – 19-.del: Družina konektorjev tipa SG (IEC 61754-19:2001)*

Fibre optic connector interfaces - Part 19: Type SG connector family (IEC 61754-19:2001)

ICS 33.180.20

Referenčna številka
SIST EN 61754-19:2004(en)

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61754-19

January 2002

ICS 33.180.20

English version

Fibre optic connector interfaces
Part 19: Type SG connector family
(IEC 61754-19:2001)

Interfaces de connecteurs pour fibres optiques
Partie 19: Famille de connecteurs de type SG
(CEI 61754-19:2001)

Steckgesichter von Lichtwellenleiter-Steckverbindern
Teil 19: Steckverbinderfamilie der Bauart SG
(IEC 61754-19:2001)

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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 Central Secretariat has the same status as the official versions.

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Ref. No. EN 61754-19:2002 E

Foreword

The text of document 86B/1575/FDIS, future edition 1 of IEC 61754-19, 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 61754-9 on 2001-12-01.

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)	2002-09-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2004-12-01

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The IEC and CENELEC take no position concerning the evidence, validity and scope of this patent right.

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Endorsement notice

The text of the International Standard IEC 61754-19:2001 was approved by CENELEC as a European Standard without any modification.

NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC
61754-19

Première édition
First edition
2001-10

Interfaces de connecteurs pour fibres optiques –

Partie 19:
Famille de connecteurs de type SG

Fibre optic connector interfaces –

Part 19:
Type SG connector family

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International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE K

Pour prix, voir catalogue en vigueur
For price, see current catalogue

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC CONNECTOR INTERFACES –

Part 19: Type SG connector family

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61754-19 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/1575/FDIS	86B/1606/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.

IEC 61754 consists of multiple parts, under the general title *Fibre optic connector interfaces.*

– Part 1, entitled *General and guidance*, covers general information.
– Subsequent parts contain interfaces for various connector families.

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

– reconfirmed;
– withdrawn;
– replaced by a revised edition, or
– amended.

FIBRE OPTIC CONNECTOR INTERFACES –

Part 19: Type SG connector family

1 Scope

This part of IEC 61754 defines the standard interface dimensions for the type SG family of connectors.

2 Description

The parent connector for the type SG connector family is a single position plug of plug/socket connector set configuration. The plug is characterized by duplex cantilevered optical fibres located within the plug interior. Plug optical fibres flex to mate with socket optical fibre ends. Mating socket optical fibres are positioned and aligned by integral V-grooves. Socket V-grooves capture, guide, and align the plug optical fibres during connector set engagement. The spring-release latch limits plug penetration into the socket; it is also a single position key preventing inverted assembly. Contaminant entry is restricted by an integral plug cover and socket door. Each is normally closed when de-mated, but self-actuate to open position for single-action connector set engagement.

3 Interfaces

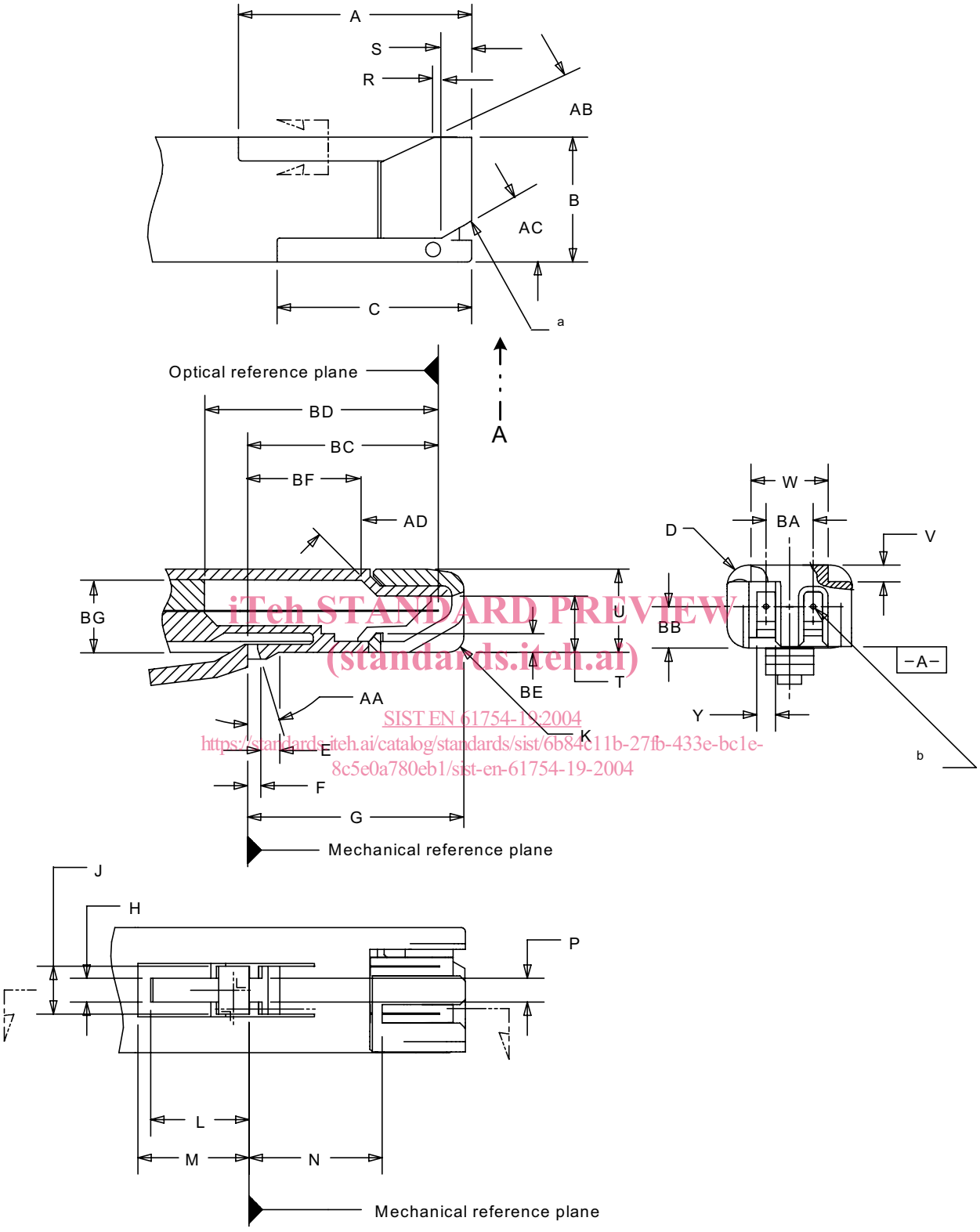
The following figures and tables define the standard interfaces for the type SG connector family. The standard interfaces contained in this standard are listed in the following:

61754-19-1: duplex plug connector interface – 8° contact angle

61754-19-2: duplex socket connector interface – 8° contact angle

The following connectors are intermateable:

61754-19-1 mates with 61754-19-2.



IEC 2037/01

a Plug cover shown in open position (openings expose fibre ends). Transverse cover motion is self-actuated by entry/exit from socket.

b Optical fibre (see table 1a, table footnote [b]).

Figure 1a – Duplex plug connector interface