IEC 61754-25

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Fibre optic connector interfaces – Part 25: Type RAO connector family

Interfaces de connecteurs pour fibres optiques – Partie 25: Famille de connecteurs du type RAO

IEC 61754-25:2008

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FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. 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 61754-25 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:

CDV	Report on voting
86B/2624/CDV	86B/2711/RVC

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, under the general title: *Fibre optic connector interfaces*, can be found on the IEC website.

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- withdrawn,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.

INTRODUCTION

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 61754-25.

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

The holder of this patent right has assured 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:

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Tokyo Japan

R&D Department

Sanwa Denki Kogyo Co.,Ltd

2973-4,Ishikawa-Cho,Hachioji-Shi,

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Intellectual Property Department

Nippon Telegraph and Telephone Corporation

9-11, Midori-Cho 3-Chome, Musashino-Shi,

Tokyo Japan

NTT Advance Technology Corporation and Sanwa Denki Kogyo hold the patent right concerning Figure 1A (patent number:2001-318847).

NTT holds the patent right concerning Figure 2A and Figure 3 (patent number: 1991-228619).

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FIBRE OPTIC CONNECTOR INTERFACES –

Part 25: Type RAO connector family

1 Scope

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

2 Description

The type RAO connector is a multiway right-angled optical board connector, for glass optical fibre, which connects two optical boards or provides a connection between an optical fibre ribbon and an optical board at an angle of 90°. The optical connection is the physical contact of optical fibres with rectangular ferrules nominally 6,4 mm x 2,5 mm, which use two 0,7 mm diameter alignment pins.

The radius of curvature at the 90° bend is maintained so that it gives permissible loss.

3 Interfaces

This standard contains the following standard interfaces:

Figure 1a: RAO connector configuration (top view)
Figure 1b: RAO connector configuration (side view)
Figure 2a: RAO socket connector interface
Figure 2b: Optical datum target location diagrams
Figure 3: RAO plug connector
Table 1: Dimensions of the RAO socket connector interface
Table 2: Dimensions of the RAO plug connector interface

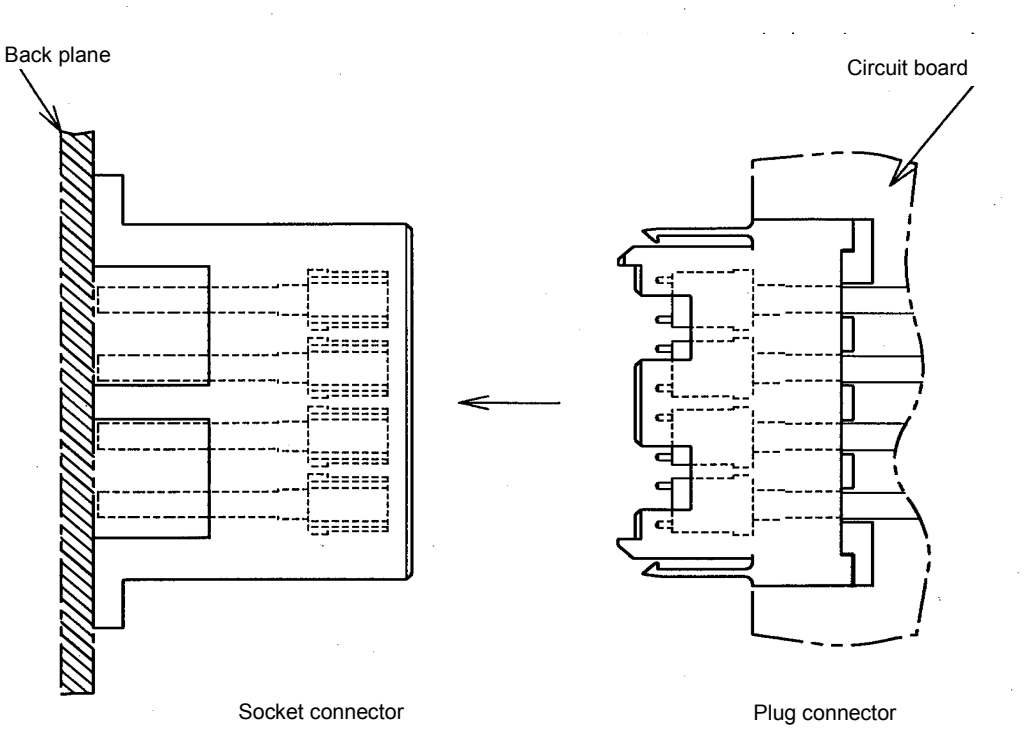

Figure 1a – Top view

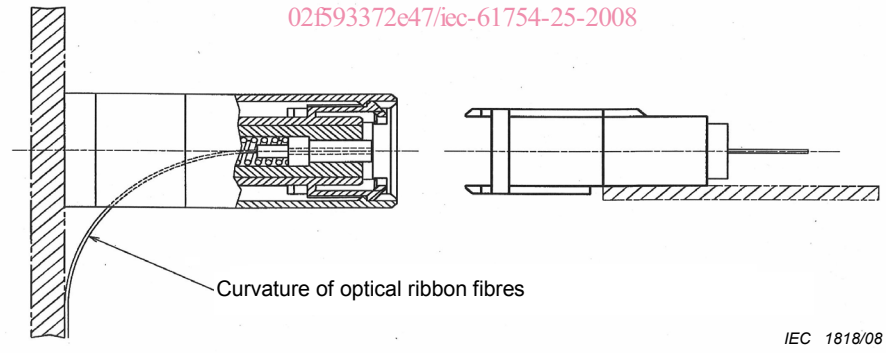

Figure 1b – Side view

Figure 1 – RAO connector configuration

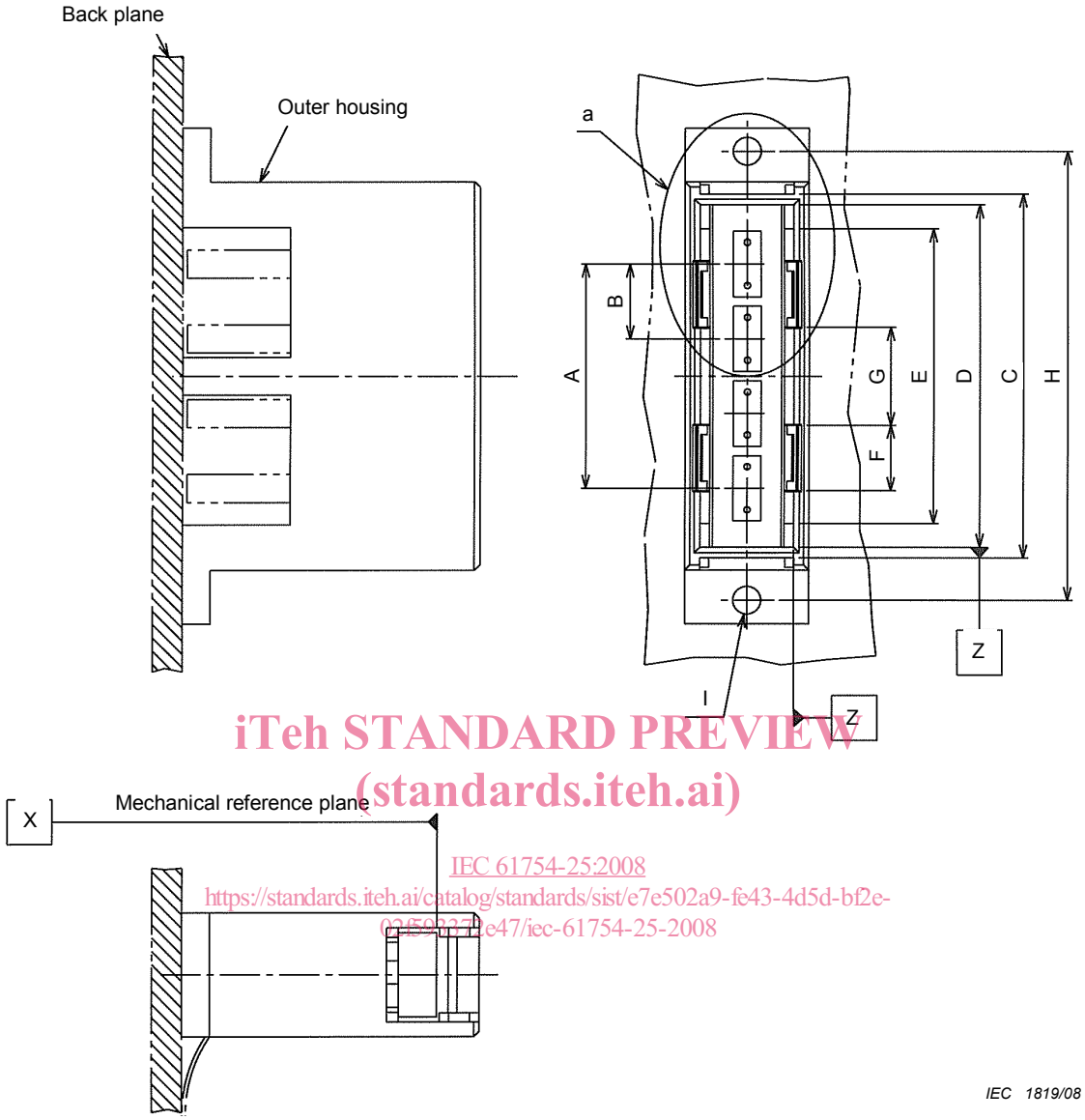

Figure 2a – RAO socket connector interface

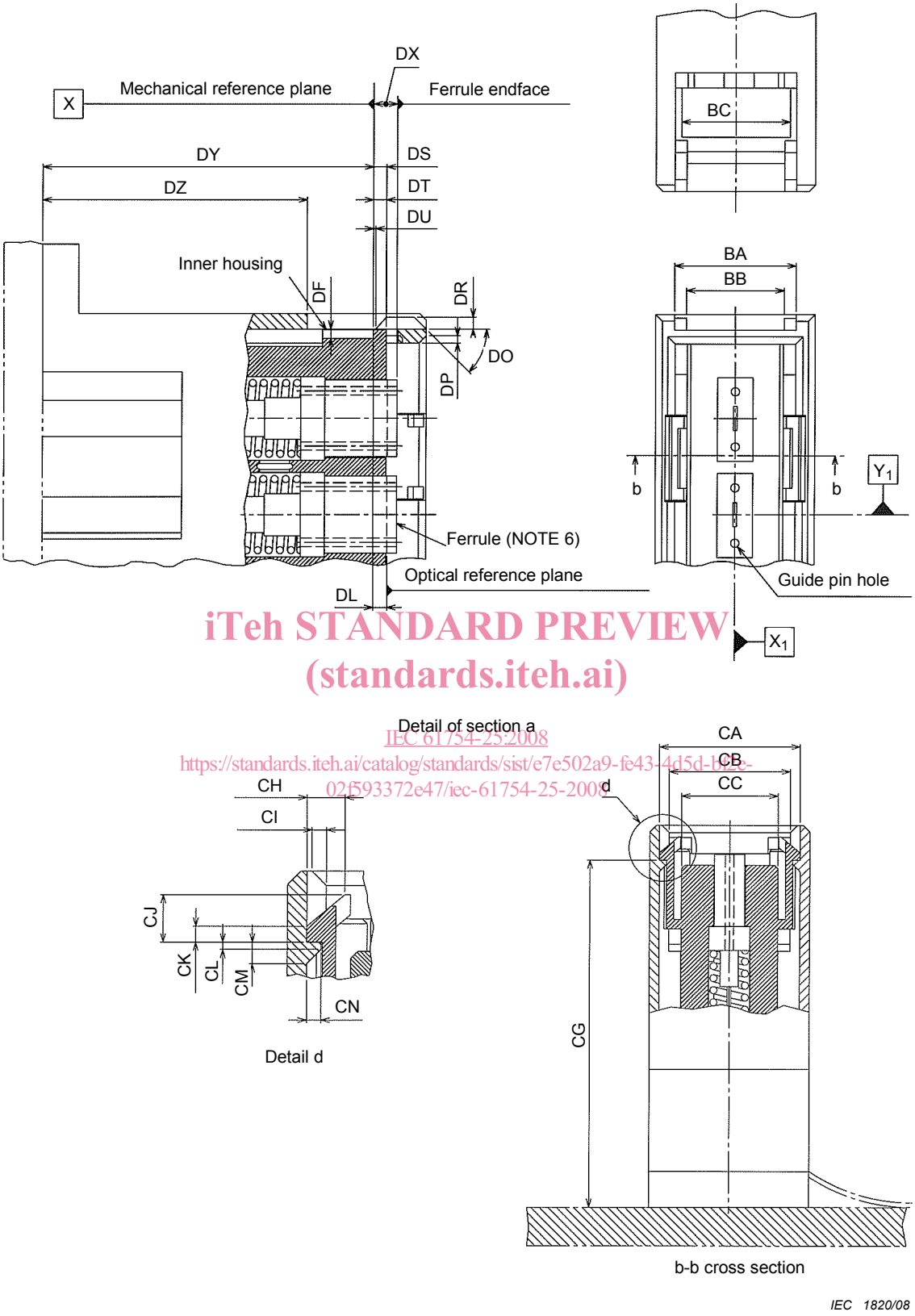

Figure 2a – RAO socket connector interface *(concluded)*

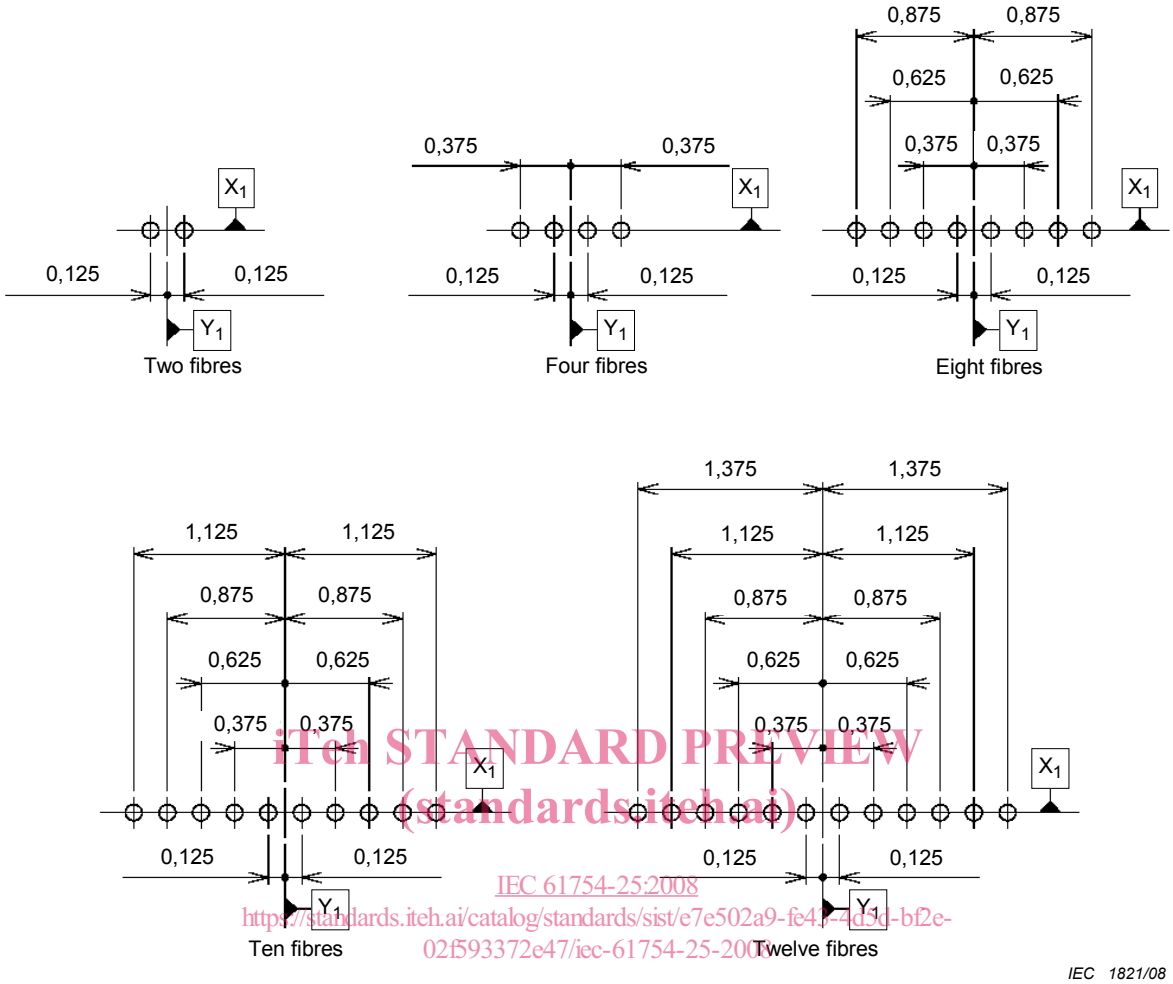

Figure 2b – Optical datum target location diagrams

Figure 2 – RAO socket connector