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BSI Standards Publication

Fibre optic interconnecting devices and passive components — Ferrule assembly and fusion splicer interface dimensions for a fusion splice on connector

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National foreword

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The UK participation in its preparation was entrusted by Technical Committee GEL/86, Fibre optics, to Subcommittee GEL/86/2, Fibre optic interconnecting devices and passive components.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Fibre optic interconnecting devices and passive components – Ferrule assembly and fusion splicer interface dimensions for a fusion splice on connector

Dispositifs d'interconnexion et composants passifs à fibres optiques – Dimensions de la férule équipée et de l'interface de l'épissureur par fusion relatives à une épissure par fusion sur connecteur

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC TS 62965, which is a Technical Specification, has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

The text of this Technical Specification is based on the following documents:

Enquiry draft	Report on voting
86B/3971/DTS	86B/3986/RVC

Full information on the voting for the approval of this technical specification can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- transformed into an International standard,
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS –

Ferrule assembly and fusion splicer interface dimensions for a fusion splice on connector

1 Scope

IEC TS 62965, which is a Technical Specification, specifies a minimum set of dimensional requirements for fusion splice on connectors (FSOCs) ferrule assemblies and the interface dimensions of splicing tools to ensure that a compliant ferrule assembly is compatible with a compliant fusion splicer. This fusion splicer interface also provides an example of the dimensional requirements for a universal holder, into which an FSOC can be mounted. This fusion splicer interface applies to FSOCs with a cylindrical ferrule of 2,5 mm diameter or 1,25 mm diameter.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1
ferrule assembly
component of an FSOC, which consists of a factory polished cylindrical ferrule, a flange and a pre-installed fibre fixed to the ferrule

3.2
fusion splice on connector
FSOC
optical connector which can be installed in the field by fusion splicing the pre-installed fibre of the ferrule assembly onto the fibre to be terminated

3.3
pre-installed fibre
portion of optical fibre where one end is fixed to the ferrule and factory polished with the endface of the ferrule, and the another end extends out of the flange and has a cleaved endface