

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Fibre optic interconnecting devices and passive components – Connector optical interfaces –**

**Part 3-2: Connector parameters of dispersion unshifted single-mode physically contacting fibres – Angled 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules**

**Dispositifs d'interconnexion et composants passifs fibroniques – Interfaces optiques de connecteurs –**

**Partie 3-2: Paramètres des connecteurs pour fibres unimodales à dispersion non décalée en contact physique – Ferrules cylindriques avec angle en zircone pleine de 2,5 mm et 1,25 mm de diamètre**





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cylindrical full zirconia ferrules**

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This second edition cancels and replaces the first edition published in 2006. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) normative references have been added;
- b) The introduction of an additional optical interface with a different fibre core eccentricity profile. The previous revision of optical interface standard is named "Variant 1: with fibre core axis oriented towards the connector guide key". The additional optical interface is named "Variant 2: with fibre core axis not oriented towards the connector guide key";
- c) statements added related to interoperability, where both variants remain intermateable within a given performance grade and are fully backwards compatible to IEC 61755-3-2:2006;
- d) The addition of Grade B and Grade C interface requirements for both variants;
- e) The addition of a descriptive statistic for the mean fibre core eccentricity (mean value) to describe the distribution of fibre core eccentricity to ensure interoperability;
- f) A new informative Annex B to give guidance on the expected attenuation when mated to a reference connector plug;
- g) A new informative Annex C to give guidance related to the simulation of optical interface attenuation;
- h) A new informative Annex D to give guidance related to estimation of mean fibre eccentricity limits for finite production batch sizes.

The text of this International Standard is based on the following documents:

Draft	Report on voting
86B/4864/FDIS	86B/4890/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all parts of the IEC 61755 series, under the general title *Fibre optic interconnecting devices and passive components – Connector optical interfaces for single-mode fibres*, can be found on the IEC website.

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

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