IEC 63267-2-2

Edition 1.0 2024-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Fibre optic interconnecting devices and passive components – Connector optical interfaces for enhanced macro bend multimode fibres – Part 2-2: Connection parameters of physically contacting 50 µm core diameter fibres – Non-angled and angled for reference connector applications

Dispositifs d'interconnexion et composants passifs fibroniques – Interfaces optiques de connecteurs pour fibre multimodale à performances améliorées par macrocourbures – Partie 2-2: Paramètres de connexion de fibres de diamètre de cœur de 50 µm en contact physique – Fibres inclinées et non inclinées pour les applications de connecteurs de référence



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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – CONNECTOR OPTICAL INTERFACES FOR ENHANCED MACRO BEND MULTIMODE FIBRES –

Part 2-2: Connection parameters of physically contacting 50 µm core diameter fibres – Non-angled and angled for reference connector applications

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

Draft	Report on voting
86B/4857/FDIS	86B/4878/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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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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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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – CONNECTOR OPTICAL INTERFACES FOR ENHANCED MACRO BEND MULTIMODE FIBRES –

Part 2-2: Connection parameters of physically contacting 50 µm core diameter fibres – Non-angled and angled for reference connector applications

1 Scope

This part of IEC 63267 defines the dimensional limits of an optical interface for reference connections necessary to meet specific requirements for fibre-to-fibre interconnection of non-angled and angled polished multimode reference connectors intended to be used for attenuation measurements in the field or factory.

Several grades of reference connections are defined in this document. The multimode reference connections are terminated to restricted IEC 60793-2-10 A1-OM2b to A1-OM5b fibre at the 850 nm band only. The geometrical dimensions and tolerances of the specified reference connections have been developed primarily to limit the variation in measured attenuation between multiple sets of two reference connectors, and therefore to limit the variation in measured attenuation between randomly chosen reference connectors when mated with connectors in the field or factory.

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.

IEC 60793-2-10, *Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres*

IEC 61300-3-35, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-35: Examinations and measurements – Visual inspection of fibre optic connectors and fibre-stub transceivers*

3 Terms and definitions

No terms and definitions are listed in this document.

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