IEC 61755-6-2

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Fibre optic interconnecting devices and passive components – Connector optical interfaces – Part 6-2: Connection of 50 µm core diameter multimode physically contacting fibres – Non-angled for reference connector application, at wavelength of 850 nm using selected A1a fibre only

Dispositifs d'interconnexion et composants passifs fibroniques – Interfaces optiques de connecteurs – Partie 6-2: Connexion de fibres multimodales en contact physique d'un diamètre de cœur de 50 µm – Connecteurs de référence sans angle, à une longueur d'onde de 850 nm et en utilisant uniquement les fibres A1a choisies

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International Standard IEC 61755-6-2 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86B/4124/FDIS	86B/4128/RVD

Full information on the voting for the approval of this International Standard 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.

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

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

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- amended.

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – CONNECTOR OPTICAL INTERFACES –

Part 6-2: Connection of 50 µm core diameter multimode physically contacting fibres – Non-angled for reference connector application, at wavelength of 850 nm using selected A1a fibre only

1 Scope

This part of the IEC 61755 defines the dimensional limits of an optical interface for reference connectors necessary to meet specific requirements for fibre-to-fibre interconnection of non-angled polished multimode reference connectors with cylindrical ferrules intended to be used for attenuation measurements in the field or factory.

One grade of reference connector is defined in this document. The reference connector is terminated to selected IEC 60793-2-10:2015 A1a fibre. The geometrical dimensions and tolerances of the specified reference connector 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 60793-2-10:2015, *Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibre*

IEC 61300-3-4, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-4: Examinations and measurements – Attenuation*

3 Terms and definitions

No terms and definitions are listed in this document.

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