

INTERNATIONAL STANDARD

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

Part 3-31: Connector parameters of non-dispersion shifted single mode physically contacting fibres – Angled poly(phenylene sulphide) rectangular ferrules

Dispositifs d'interconnexion et composants passifs à fibres optiques – Interfaces optiques de connecteurs –

Partie 3-31: Paramètres de connecteurs pour fibres unimodales à dispersion non décalée, en contact physique – Férules rectangulaires avec angle en poly(sulfure de phénylène)



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

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The text of this standard is based on the following documents:

FDIS	Report on voting
86B/3888FDIS	86B/3914/RVD

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 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.

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Part 3-31: Connector parameters of non-dispersion shifted single mode physically contacting fibres – Angled polyphenylene sulphide rectangular ferrules

1 Scope

This part of IEC 61755 defines certain dimensional limits of an angled PC rectangular polyphenylene sulphide (PPS) ferrule optical interface in order to meet specific requirements for fibre-to-fibre interconnection. Ferrules made from the material specified in this standard are suitable for use in categories C, U, E, and O as defined in IEC 61753-1.

Ferrule interface dimensions and features are contained in the IEC 61755 series, which deals with fibre optic connector interfaces.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60793-2-50, *Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres*

IEC 61300-3-30, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-30: Examinations and measurements – Polish angle and fibre position on single ferrule multi-fibre connectors*

IEC 61300-3-52, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-52: Examinations and measurements – Guide hole and alignment pin deformation constant, CD for 8 degree angled PC rectangular ferrule, single mode fibres*

IEC 61754 (all parts), *Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces*

IEC 61754-5:2005, *Fibre optic connector interfaces – Part 5: Type MT connector family*

IEC 61754-7:2008, *Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 7: Type MPO connector family*

IEC 61754-7-1:2014, *Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 7-1: Type MPO connector family – One fibre row*

IEC 61754-10:2005, *Fibre optic connector interfaces – Part 10: Type Mini-MPO connector family*

IEC 61754-18:2001, *Fibre optic connector interfaces – Part 18: Type MT-RJ connector family*