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**Fibre optic interconnecting devices and passive components – Connector optical interfaces –
Part 3-32: Connector parameters of non-dispersion shifted single mode physically contacting fibres – Angled thermoset epoxy rectangular ferrules**

**Dispositifs d'interconnexion et composants passifs à fibres optiques – Interfaces optiques de connecteurs –
Partie 3-32: Paramètres de connecteurs pour fibres unimodales à dispersion non décalée, en contact physique – Férules rectangulaires avec angle en époxy thermodurcissable**



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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references.....	5
3 Description.....	6
4 Interface parameters.....	6
Annex A (informative) Theoretical worst-case connector attenuation yield percentage.....	12
Annex B (informative) Minus coplanarity.....	14
Annex C (informative) Minimum normal force required to achieve physical contact.....	15
Bibliography.....	19
Figure 1 – Fibre numbering conventions.....	7
Figure 2 – Interface dimensions related to lateral and angular offset.....	7
Figure 3 – Alignment pin geometry.....	8
Figure 4 – Interface dimensions related to longitudinal offset.....	9
Figure A.1 – Monte Carlo simulation of Grade C performance for 12-fibre connectors.....	12
Figure B.1 – Illustration of fibre line and minus coplanarity parameters.....	14
Figure C.1 – Geometry limit (<i>GL</i>), needed to mate 12 fibres as a function of absolute X-angle, $ SX $ for different magnitudes of minus coplanarity and flat fibre tips.....	16
Figure C.2 – Geometry limit (<i>GL</i>), needed to mate 12 fibres as a function of absolute X-angle, $ SX $ for different magnitudes of minus coplanarity and 1 mm fibre tips.....	16
Table 1 – Optical interface variant information.....	7
Table 2 – Optical interface dimensions related to lateral and angular offset for optical interface variant 2112.....	10
Table 3 – Optical interface end face geometry dimensions related to physical contact for optical interface variant 2112.....	11
Table A.1 – Grade C single channel vs. multi-fibre connector performance.....	13
Table C.1 – Parameter constants for 4-fibre optical interface variant K2.....	18
Table C.2 – Parameter constants for 8-fibre optical interface variant K3.....	18
Table C.3 – Parameter constants for 12-fibre optical interface variant K4.....	18

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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DEVICES AND PASSIVE COMPONENTS –
CONNECTOR OPTICAL INTERFACES –**

**Part 3-32: Connector parameters of non-dispersion
shifted single mode physically contacting fibres –
Angled thermoset epoxy rectangular ferrules**

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International Standard IEC 61755-3-32 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This first edition cancels and replaces IEC PAS 61755-3-32 published in 2007. This edition constitutes a technical revision.

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

FDIS	Report on voting
86B/3889/FDIS	86B/3915/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 of the IEC 61755 series, under the general title *Fibre optic interconnecting devices and passive components – Connector optical interfaces*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards 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 –

Part 3-32: Connector parameters of non-dispersion shifted single mode physically contacting fibres – Angled thermoset epoxy rectangular ferrules

1 Scope

This part of IEC 61755 defines certain dimensional limits of an angled PC rectangular thermoset (TS) 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, C_D for 8 degree angled PC rectangular ferrule, single mode fibres*

IEC 61754 (all parts), *Fibre optic interconnection 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 61755-1, *Fibre optic connector optical interfaces – Part 1: Optical interface for single mode non dispersion shifted fibres – General and guidance*