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Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces -
Part 37: Type MDC connector family

Dispositifs d'interconnexion et composants passifs fibroniques - Interfaces de connecteurs fibroniques --
Partie 37: Famille de connecteurs de type MDC

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Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 37: Type MDC connector family

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IEC 61754-37 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86B: Fibre optics. It is an International Standard.

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

Draft	Report on voting
86B/5088/FDIS	86B/5120/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.

A list of all parts in the IEC 61754 series, published under the general title *Fibre optic interconnecting devices and passive components – Fibre optic connector 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 webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

1 Scope

This part of IEC 61754 defines the standard mechanical interface dimensions for the type MDC family of connectors.

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 60794-2-50, *Optical fibre cables - Part 2-50: Indoor cables - Family specification for simplex and duplex cables for use in terminated cable assemblies*

IEC 61754-1, *Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 1: General and guidance*

IEC 61755-3-1, *Fibre optic connector optical interfaces - Part 3-1: Optical interface, 2,5 mm and 1,25 mm diameter cylindrical full zirconia PC ferrule, single mode fibre*

IEC 61755-3-2, *Fibre optic connector optical interfaces - Part 3-2: Optical interface, 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules for 8 degrees angled-PC single mode fibres*

IEC 63267 (all parts), *Fibre optic interconnecting devices and passive components - Fibre optic connector optical interfaces*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61754-1 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

4 Abbreviated terms

APC angled physical contact

OD outer diameter

PC physical contact

5 Description

The parent connector for type MDC connector family is a duplex connector set of plug/adaptor/plug configuration which is characterized by the following.

– The connector includes two 1,25 mm [nominal outer diameter (OD)], spring-loaded ferrules.

– The connector has a push-pull coupling latching mechanism.

– The optical alignment mechanism of the connectors is a resilient split sleeve.

Refer to Annex A for additional adaptor dimensional information.