PRE-RELEASE VERSION (FDIS)

Fibre optic active components and devices – Package and interface standards – Part 17: Transmitter and receiver components with dual coaxial RF connectors

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### IEC SC 86C: Fibre Optic Systems and Active Devices

**Secretary:**
United States of America  
Mr Fred Heismann

**Of Interest to the Following Committees:**
- SC 46F

**Functions Concerned:**
- [ ] EMC
- [ ] Environment
- [x] Quality Assurance
- [ ] Safety

**Submitted for CENELEC Parallel Voting**

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The CENELEC members are invited to vote through the CENELEC online voting system.

**Not Submitted for CENELEC Parallel Voting**

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**Title:**

Fibre optic active components and devices - Package and interface standards - Part 17: Transmitter and receiver components with dual coaxial RF connectors

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**Note from TC/SC Officers:**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC ACTIVE COMPONENTS AND DEVICES – PACKAGE AND INTERFACE STANDARDS –

Part 17: Transmitter and receiver components with dual coaxial RF connectors

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IEC 62148-17 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics. It is an International Standard.

This second edition cancels and replaces the first edition published in 2013. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) IEC 61169-60 was added as a normative reference for SMPM connectors;
b) normative reference IEC 60874-1 (withdrawn) was replaced by IEC 61754 (all parts);
c) a reference to the terms and definitions of IEC 62007-1 was added in Clause 3;
d) a new column “Typical” was added to the tables in Figure 2 and Figure 3 to clarify the meaning of all listed values.
This standard is to be read in conjunction with IEC 62148-1.

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

<table>
<thead>
<tr>
<th>Draft</th>
<th>Report on voting</th>
</tr>
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<tbody>
<tr>
<td>86C/XX/FDIS</td>
<td>86C/XX/RVD</td>
</tr>
</tbody>
</table>

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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all parts of the IEC 62148 series, published under the general title *Fibre optic active components and devices – Package and interface standards*, 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](http://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 62148 defines physical interface specifications for transmitter and receiver components with dual coaxial RF 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 61169-60, Radio-frequency connectors – Part 60: Sectional specification for RF coaxial connectors with push on mating – Characteristic impedance 50 Ohm (type SMPM)

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

IEC 62007-1, Semiconductor optoelectronic devices for fibre optic system applications – Part 1: Specification template for essential ratings and characteristics

IEC 62148-1, Fibre optic active components and devices – Package and interface standards – Part 1: General and guidance