
**Aktivne komponente in naprave optičnih vlaken - Standardi za ohišja in vmesnike -
17. del: Oddajniške in sprejemniške komponente z dvojnimi koaksialnimi
radiofrekvenčnimi (RF) konektorji (IEC 62148-17:2023)**

Fibre optic active components and devices - Package and interface standards - Part 17:
Transmitter and receiver components with dual coaxial RF connectors (IEC 62148-
17:2023)

Aktive Lichtwellenleiterbauelemente und -Geräte – Gehäuse- und Schnittstellennormen –
Teil 17: Sende- und Empfangsbauteile mit dualen HF-Koaxialsteckverbindern (IEC
62148-17:2023)

Composants et dispositifs actifs à fibres optiques - Normes de boîtiers et d'interface -
Partie 17: Composants émetteurs et récepteurs munis de connecteurs coaxiaux RF
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ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 62148-17

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Supersedes EN 62148-17:2014

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**Fibre optic active components and devices - Package and
interface standards - Part 17: Transmitter and receiver
components with dual coaxial RF connectors
(IEC 62148-17:2023)**

Composants et dispositifs actifs fibroniques - Normes de
boîtiers et d'interface - Partie 17: Composants émetteurs et
récepteurs avec deux connecteurs RF coaxiaux
(IEC 62148-17:2023)

Aktive Lichtwellenleiterbauelemente und -Geräte -
Gehäuse- und Schnittstellennormen - Teil 17: Sende- und
Empfangsbauteile mit dualen HF-Koaxialsteckverbindern
(IEC 62148-17:2023)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62148-17:2023 (E)**European foreword**

The text of document 86C/1880/FDIS, future edition 2 of IEC 62148-17, prepared by SC 86C "Fibre optic systems and active devices" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62148-17:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-07-25
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-10-25

This document supersedes EN 62148-17:2014 and all of its amendments and corrigenda (if any).

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Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 62148-17:2023 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60191 (series) NOTE Approved as EN 60191 (series)

IEC 60825-1 NOTE Approved as EN 60825-1

IEC 60825-2 NOTE Approved as EN 60825-2

IEC 61000 (series) NOTE Approved as EN IEC 61000 (series)

IEC 61281-1 NOTE Approved as EN IEC 61281-1

IEC 62007-2 NOTE Approved as EN 62007-2

ISO 1101 NOTE Approved as EN ISO 1101

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60793-2-50	-	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN IEC 60793-2-50	-
IEC 61169-60	-	Radio-frequency connectors - Part 60: Sectional specification for RF coaxial connectors with push on mating - Characteristic impedance 50 Ohm (type SMPM)	EN IEC 61169-60	-
IEC 61754	series	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces	EN 61754	series
IEC 62007-1	-	Semiconductor optoelectronic devices for fibre optic system applications - Part 1: Specification template for essential ratings and characteristics	EN 62007-1	-
IEC 62148-1	-	Fibre optic active components and devices - Package and interface standards - Part 1: General and guidance	EN IEC 62148-1	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Composants et dispositifs actifs fibroniques – Normes de boîtiers et d'interface –
Partie 17: Composants émetteurs et récepteurs avec deux connecteurs RF
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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**

FOREWORD

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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:

Draft	Report on voting
86C/1880/FDIS	86C/1886/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 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 in the data related to the specific document. At this date, the document will be

- reconfirmed,
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