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|------------|--|---|
| <b>STN</b> | <b>Optovláknové aktívne súčiastky a prvky<br/>Normy na puzdro a rozhranie<br/>Časť 17: Komponenty vysielača a prijímača<br/>s duálnymi VF koaxiálnymi konektormi</b> | <b>STN<br/>EN IEC 62148-17</b><br><br>35 9255 |
|------------|--|---|

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

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/23

Obsahuje: EN IEC 62148-17:2023, IEC 62148-17:2023

Oznámením tejto normy sa od 25.10.2026 ruší  
STN EN 62148-17 (35 9255) z novembra 2014

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Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024  
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD

**EN IEC 62148-17**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2023

ICS 33.180.99

Supersedes EN 62148-17:2014

English Version

**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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**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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-10-25

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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](http://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    | -           |



# IEC 62148-17

Edition 2.0 2023-09

# 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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IEC 62148-17

Edition 2.0 2023-09

# 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  
coaxiaux**

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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](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.

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

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

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

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*

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**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**