SLOVENSKI STANDARD
SIST EN 62148-12:2005/A1:2023

01-januar-2023

Aktivne komponente in naprave z optičnimi vlakni - Standardi za ohišja in vmesnike - 12. del: Laserski oddajniki s koaksialnim RF-konektorjem - Dopolnilo A1 (IEC 62148-12:2004/AMD1:2022)

Fibre optic active components and devices - Package and interface standards - Part 12: Laser transmitters with a coaxial RF connector (IEC 62148-12:2004/AMD1:2022)

Aktive Lichtwellenleiterbauelemente und -geräte - Gehäuse- und Schnittstellennormen - Teil 12: Lasersender mit HF-Koaxialstecker (IEC 62148-12:2004/AMD1:2022)

Composants et dispositifs actifs en fibres optiques - Normes de boîtier et d'interface - Partie 12: Emetteurs à laser avec connecteur RF coaxial (IEC 62148-12:2004/AMD1:2022)

Ta slovenski standard je istoveten z: **EN 62148-12:2004/A1:2022**

ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices

SIST EN 62148-12:2005/A1:2023 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62148-12:2004/A1

October 2022

ICS 33.180.20

English Version

Fibre optic active components and devices - Package and interface standards - Part 12: Laser transmitters with a coaxial RF connector (IEC 62148-12:2004/AMD1:2022)

Composants et dispositifs actifs en fibres optiques - Normes de boîtier et d'interface - Partie 12: Émetteurs à laser avec connecteur RF coaxial (IEC 62148-12:2004/AMD1:2022)

Aktive Lichtwellenleiterbauelemente und -geräte - Gehäuse- und Schnittstellennormen - Teil 12: Lasersender mit HF-Koaxialstecker (IEC 62148-12:2004/AMD1:2022)

This amendment A1 modifies the European Standard EN 62148-12:2004; it was approved by CENELEC on 2022-10-27. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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

Ref. No. EN 62148-12:2004/A1:2022 E

European foreword

The text of document 86C/1786/CDV, future IEC 62148-12/AMD1, 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 62148-12:2004/A1:2022.

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) 2023-07-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-10-27

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

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 62148-12:2004/AMD1:2022 was approved by CENELEC as a European Standard without any modification.

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.cenelec.eu.

The Annex ZA of EN 62148-12:2004 applies with the following changes:

Publication	Year	Title	EN/HD	Year
Replace the existing reference to IEC 60169-15 and IEC 60169-16 with the following new references:				
IEC 61169-15	-	Radio-frequency connectors - Part 15: Sectional specification - RF coaxial connectors with inner diameter of outer conductor 4,13 mm (0,163 in) with threaded coupling - Characteristic impedance 50 Ω (type SMA)	EN IEC 61169-15	-
IEC 61169-16	-	Radio-frequency connectors Part 16: Sectional specification - RF coaxial connectors with inner diameter of outer conductor 7 mm (0,276 in) with screw coupling - Characteristics impedance 50 Ω (75 Ω) (type N)	EN 61169-16	-

IEC 62148-12

Edition 1.0 2022-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Fibre optic active components and devices – Package and interface standards – Part 12: Laser transmitters with a coaxial RF connector

Composants et dispositifs actifs en fibres optiques – Normes de boîtier et d'interface – Partie 12: Émetteurs à laser avec connecteur RF coaxial

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 33.180.20

ISBN 978-2-8322-5725-8

INTERNATIONAL ELECTROTECHNICAL COMMISSION

_____

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

Part 12: Laser transmitters with a coaxial RF connector

AMENDMENT 1

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
6) All users should ensure that they have the latest edition of this publication.
7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
9) Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to IEC 62148-12:2004 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

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

Draft	Report on voting
86C/1786/CDV	86C/1812/RVC

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 Amendment 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/standardsdev/publications/.

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,
- replaced by a revised edition, or
- amended.

_____

FOREWORD

Delete, in the existing penultimate paragraph, the following list of documents:

Part 1: General and guidance
Part 2: SFF MT-RJ 10-pin transceivers
Part 3: SFF MT-RJ 20-pin transceivers
Part 4: PN 1x9 plastic optical fibres transceivers
Part 5: SC 1x9 fibre optic modules
Part 6: ATM-PON transceivers
Part 7: SFF LC 10-pin transceivers
Part 8: SFF LC 20-pin transceivers
Part 9: SFF MU duplex 10-pin transceivers
Part 10: SFF MU duplex 20-pin transceivers
Part 11: 14-pin modulator-integrated laser diode transmitters
Part 12: Laser transmitters with a coaxial RF connector

2 Normative references

Replace, in the list of normative references, the existing reference to IEC 60169-15 with the following new reference:

IEC 61169-15, *Radio-frequency connectors – Part 15: Sectional specification – RF coaxial connectors with inner diameter of outer conductor 4,13 mm (0,163 in) with threaded coupling – Characteristic impedance 50 Ω (type SMA)*

Replace, in the list of normative references, the existing reference to IEC 60169-16 with the following new reference:

IEC 61169-16, *Radio-frequency connectors – Part 16: Sectional specification – RF coaxial connectors with inner diameter of outer conductor 7 mm (0,276 in) with screw coupling – Characteristics impedance 50 Ω (75 Ω) (type N)*

3.4
subminiature
SMA

Replace, in the definition, the existing reference "IEC 60169-15" *with the new reference* "IEC 61169-15".

4 Classification

Replace, in the existing paragraph, the words "Type 5" *with* "Type 7".

5.2.3 Coaxial connector

Replace, in the second sentence of the existing paragraph, the words "which is defined in IEC 60169-16 and IEC 60169-15" *with* "which is defined in IEC 61169-16 and IEC 61169-15".

Figure 2 – Case outline

Replace, in the note to the existing table, the reference "IEC 60169-15" *with* "IEC 61169-15".