

Aktivne komponente in naprave optičnih vlaken – Standardi oblike in vmesnika– 9. del: SFF MU duplex 10 kontaktnih oddajnikov in sprejemnikov(IEC 62148-9:2003)*

Fibre optic active components and devices - Package and interface standards - Part 9: SFF MU duplex 10-pin transceivers (IEC 62148-9:2003)

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EUROPEAN STANDARD

EN 62148-9

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2003

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English version

**Fibre optic active components and devices –
Package and interface standards
Part 9: SFF MU duplex 10-pin transceivers
(IEC 62148-9:2003)**

Composants et dispositifs actifs
en fibres optiques –
Normes de boîtier et d'interface
Partie 9: Emetteurs-récepteurs
SFF MU duplex à 10 broches
(CEI 62148-9:2003)

Aktive Lichtwellenleiterbauelemente
und -geräte –
Gehäuse- und Schnittstellennormen
Teil 9: Sende- und Empfangsmodule
des Typs SFF MU Duplex
mit 10 Anschlüssen
(IEC 62148-9:2003)

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This European Standard was approved by CENELEC on 2003-03-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CENELEC member.

This European Standard 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 86C/492/FDIS, future edition 1 of IEC 62148-9, 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 was approved by CENELEC as EN 62148-9 on 2003-03-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2003-12-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-03-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

This standard constitutes Part 9 of the EN 62148 series, published under the general title *Fibre optic active components and devices - Package and interface standards*. This series consists of Part 1, devoted to general requirements, and various parts specific to individual module families.

- 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 fibre transceivers
- Part 5: SC 1x9 fibre optic modules
- Part 6: ATM-PON transceivers
- Part 7: SFF LC 10-pin transceivers [SIST EN 62148-9:2004](https://standards.iteh.ai/catalog/standards/sist/en-62148-9-2004)
- Part 8: SFF LC 20-pin transceivers [SIST EN 62148-9:2004](https://standards.iteh.ai/catalog/standards/sist/339097a6-41a7-4ee2-8d27-100040095754/sist-en-62148-9-2004)
- Part 9: SFF MU duplex 10-pin transceivers
- Part 10: SFF MU duplex 20-pin transceivers
- Part 11: 14-pin modulator-integrated laser diode modules

Endorsement notice

The text of the International Standard IEC 62148-9:2003 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61754-6	- ¹⁾	Fibre optic connector interfaces Part 6: Type MU connector family	EN 61754-6	1997 ²⁾
IEC 62148-1	- ¹⁾	Fibre optic active components and devices - Package and interface standards Part 1: General and guidance	EN 62148-1	2002 ²⁾

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¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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**NORME
INTERNATIONALE
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**CEI
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**Composants et dispositifs actifs
en fibres optiques –
Normes de boîtier et d'interface –**

Partie 9:

Emetteurs récepteurs SFF MU duplex à 10 broches

(standards.iteh.ai)

Fibre optic active components and devices –

Package and interface standards –

Part 9:

SFF MU duplex 10-pin transceivers

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC ACTIVE COMPONENTS AND DEVICES –
PACKAGE AND INTERFACE STANDARDS –****Part 9: SFF MU duplex 10-pin transceivers**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62148-9 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86C/492/FDIS	86C/511/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This standard constitutes part 9 of the IEC 62148 series, published under the general title *Fibre optic active components and devices – Package and interface standards*. This series consists of Part 1, devoted to general requirements, and various parts specific to individual module families.

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