



SLOVENSKI STANDARD

SIST EN 4869-103:2025

01-februar-2025

Aeronavtika - Razširjeni optični zaključki, nefizični stik optičnih vlaken v standardnih votlinah po standardu EN 3645 - 103. del: Večrodovni moški zaključki velikosti 12 - Tehnična specifikacija

Aerospace series - Expanded beam termini, fibre optic non-physical contact in EN 3645 standard cavities - Part 103: Multimode male termini size 12 - Technical specification

Luft- und Raumfahrt - Strahlaufweitender Anschluss, berührungsloser Lichtwellenleiterkontakt in EN 3645-Standardkontaktkammer - Teil 103: Multimode-Stiftanschluss, Größe 12 - Technische Lieferbedingungen

Série aérospatiale - Contact à faisceau expansé, fibre optique sans contact physique, dans alvéoles standards EN 3645 - Partie 103 : Contact mâle multimode taille 12 - Spécification technique

[SIST EN 4869-103:2025](https://standards.iteh.ai/SIST/EN/4869-103:2025)

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Ta slovenski standard je istoveten z: EN 4869-103:2024

ICS:

49.090	Oprema in instrumenti v zračnih in vesoljskih plovilih	On-board equipment and instruments
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EUROPEAN STANDARD

EN 4869-103

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2024

ICS 49.090

English Version

Aerospace series - Expanded beam termini, fibre optic non-physical contact in EN 3645 standard cavities - Part 103: Multimode male termini size 12 - Technical specification

Série aérospatiale - Terminaisons à faisceau élargi, contact à fibre optique non physique dans des cavités EN 3645 standard - Partie 103 : Terminaisons mâles multimodes taille 12 - Spécification technique

Luft- und Raumfahrt - Strahlaufweitender Anschluss, berührungsloser Lichtwellenleiterkontakt in EN 3645-Standardkontaktkammer - Teil 103: Multimode-Stiftanschluss, Größe 12 - Technische Lieferbedingungen

This European Standard was approved by CEN on 19 August 2024.

CEN 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 CEN-CENELEC Management Centre or to any CEN 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 CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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European foreword

This document (EN 4869-103:2024) has been prepared by ASD-STAN.

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2025, and conflicting national standards shall be withdrawn at the latest by June 2025.

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

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EN 4869-103:2024 (E)**1 Scope**

This document specifies the dimensions and performance requirements of a multimode male size 12, non-physical contact expanded beam terminus. This terminus is applicable (for use) with connectors which have standard size 12 pin crimp contact cavities: connectors with cavities for contact of type EN 3155-008M12.

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.

EN 2591-100,¹ *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General*

EN 2591-304, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 304: Damp heat steady state*

EN 2591-407, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 407: Durability of contact retention system and seals*

EN 2591-601, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 601: Optical elements — Insertion loss*

EN 2591-602, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 602: Optical elements — Variation of attenuation and optical discontinuity*

EN 2591-604, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 604: Optical elements — Cleaning capability of optical face*

EN 2591-605, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 605: Optical elements — Return loss*

EN 2591-609, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 609: Optical elements — Effectiveness of cable attachment — Cable cyclic flexing*

EN 2591-610, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 610: Optical elements — Effectiveness of cable attachment — Cable pulling*

EN 2591-611, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 611: Optical elements — Effectiveness of cable attachment — Cable torsion*

EN 2591-612, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 612: Optical elements — Effectiveness of cable attachment — Cable axial compression*

EN 2591-613, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 613: Optical elements — Impact test*

¹ Published as ASD-STAN prEN at the date of publication of this document, available at: <https://www.asd-stan.org/>.