

SLOVENSKI STANDARD

SIST EN 4626-002:2008

01-julij-2008

Aeronavtika - Konektorji, optil'ni, pravokotni, vel' kontaktni, s stojalom in pločl'o, vdolbina Quadrax, s premerom kapice 2,5 mm - Delovna temperatura -65 °C do 125 °C (odvisna od kabla) - Izravnani kontakti - 002. del: Specifikacija lastnosti in razporeditev kontaktov

Aerospace series - Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule - Operating temperatures - 65 °C to 125 °C (cable dependent) - Flush contacts - Part 002: Specification of performance and contact arrangements

Luft- und Raumfahrt - Optische Rechtecksteckverbinder, Quadrax-Kontaktkammer, Durchmesser 2,5 mm Ferrule - Betriebstemperaturen - 65 °C bis 125 °C (vom Kabel abhängig) - Bündige Kontakte - Teil 002: Leistungsdaten und Kontaktanordnungen

Série aérospatiale - Connecteurs, optique, rectangulaire, à contacts multiples, rackables, cavité Quadrax, fêrue diamètre 2,5 mm - Température d'utilisation - 65 °C à 125 °C (selon câble) - Contacts affleurants - Partie 002 : Spécification de performances et arrangements des contacts

Ta slovenski standard je istoveten z: EN 4626-002:2008

ICS:

49.060	Letalska in vesoljska električ na oprema in sistemi	Aerospace electric equipment and systems
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English Version

Aerospace series - Connectors, optical, rectangular,
multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter
ferrule - Operating temperatures - 65 °C to 125 °C (cable
dependent) - Flush contacts - Part 002: Specification of
performance and contact arrangements

Série aérospatiale - Connecteurs, optique, rectangulaire, à
contacts multiples, rackables, cavité Quadrax, fêrulle
diamètre 2,5 mm - Température d'utilisation - 65 °C à 125
°C (selon câble) - Contacts affleurants - Partie 002 :
Spécification de performances et arrangements des
contacts

Luft- und Raumfahrt - Optische Rechtecksteckverbinder,
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abhängig) - Bündige Kontakte - Teil 002: Leistungsdaten
und Kontaktanordnungen

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This European Standard was approved by CEN on 28 December 2007.

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 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 Management Centre has the same status as the official versions.

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



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

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Contents		Page
Foreword.....		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	List of product standard	5
5	General characteristics	5
5.1	Climatic characteristics	5
5.2	Mechanical characteristics	5
6	Housing sizes and contact arrangements	5
7	Combination	11
8	Filler plugs and dummy contacts.....	11

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Foreword

This document (EN 4626-002:2008) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

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

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

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

This standard was reviewed by the Domain Technical Coordinator of ASD-STAN's Electrical Domain.

After inquiries and votes carried out in accordance with the rules of ASD-STAN defined in ASD-STAN's General Process Manual, this standard has received approval for Publication.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard specifies the general characteristics, the conditions for qualification, acceptance and quality assurance, as well as the test programs and groups for fibre sub-assembly contacts in rack and panel connectors, intended for use in a temperature range from – 65 °C to 125 °C continuous (cable dependent).

This standard specifies a pair of adaptors to fit with standard Quadrax cavities and EN 4531-101 optical contact.

2 Normative references

The following referenced documents are indispensable for the application 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 4531-101, *Aerospace series — Connectors, optical, circular, single and multipin, coupled by threaded ring — Flush contacts — Part 101: Optical contact for EN 4641-100 cable – 55 °C to 125 °C — Product standard.* ¹⁾

EN 4626-001, *Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 001: Technical specification.* ¹⁾

EN 4626-003, *Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 003: Adaptor for plug.* ¹⁾

EN 4626-004, *Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 004: Adaptor for receptacle.* ¹⁾

EN 4626-101, *Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 101: Optical contact (sub-assembly) for plug — Product standard.* ¹⁾

EN 4626-201, *Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 201: Optical contact (sub-assembly) for receptacle — Product standard.* ¹⁾

EN 4626-202, *Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 202: Optical contact assembly for 900 µm buffered fibre receptacle — Product standard.* ¹⁾

ARINC 600, *Air transport avionics — Equipment interfaces.* ²⁾

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 4626-001 apply.

1) Published as ASD-STAN Prestandard at the date of publication of this standard.

2) Published by: Aeronautical Radio, Inc. 2551 Riva road, Annapolis, Maryland 21401.

4 List of product standard

EN 4626-003, Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 003: Adaptor for plug.

EN 4626-004, Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 004: Adaptor for receptacle.

EN 4626-101, Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 101: Optical contact (sub-assembly) for plug — Product standard.

EN 4626-201, Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 201: Optical contact (sub-assembly) for receptacle — Product standard.

EN 4626-202, Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 202: Optical contact assembly for 900 µm buffered fibre receptacle — Product standard.

5 General characteristics

5.1 Climatic characteristics

Temperature range: – 65 °C to 125 °C depending on the cable type.

Fluid resistance: Not applicable.

Corrosion resistance: 48 hours salt spray.

5.2 Mechanical characteristics

Mechanical endurance: 500 mating and unmating cycles.

NOTE: Any configuration of layout must not exceed the maximum value defined in ARINC 600 specification for mating force.

6 Housing sizes and contact arrangements

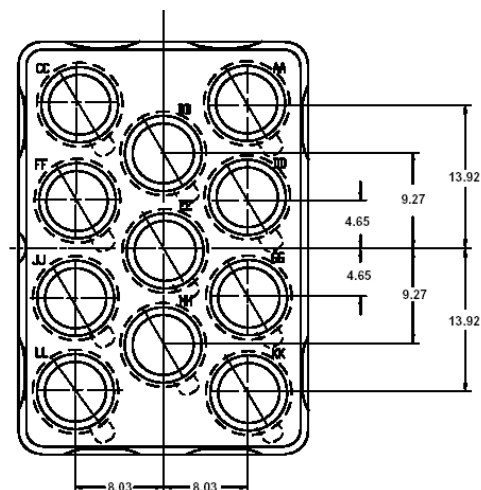
Rear release/rear removable contact.

See Figures 1 to 5.

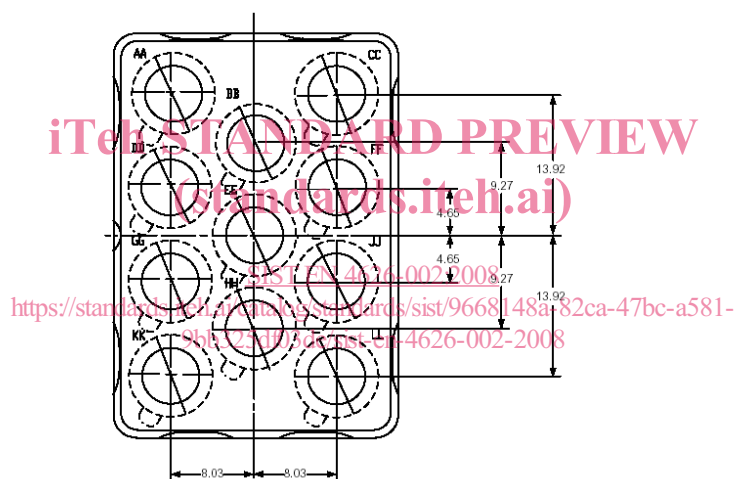
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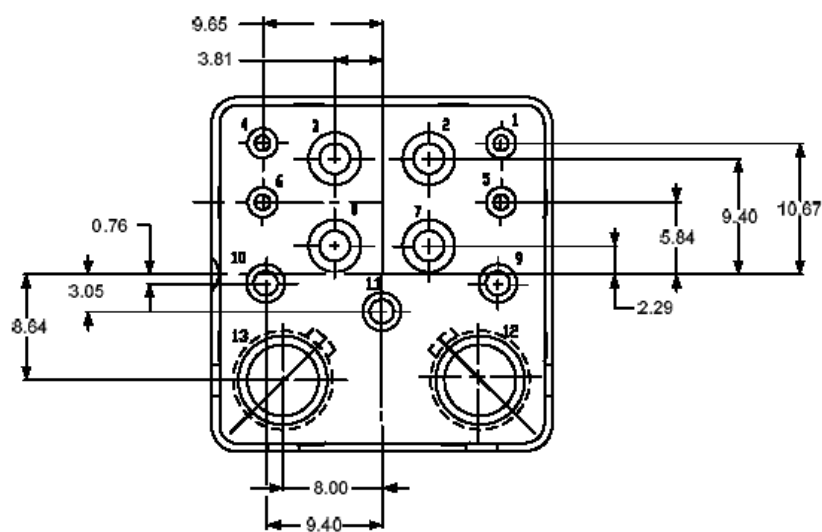


Plug front mating face

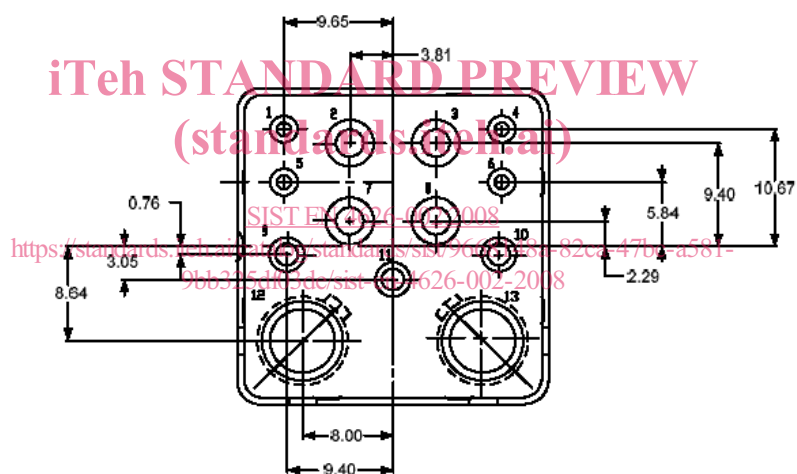


Receptacle front mating face

Figure 1 — Layout Q11



Plug front mating face



Receptacle front mating face

Figure 2 — Layout 11Q2