SIST

SLOVENSKI STANDARD
SIST EN 4626-202:2009

01-junij-2009

Aeronavtika - Konektorji, optiļ ni, pravokotni, veļ kontaktni, s stojalom in ploġļ o, vdolbina Quadrax, s premerom kapice 2,5 mm - Delovna temperatura -65 ĆC do 125 ĆC (odvisna od kabla) - Izravnani kontakti - 202. del: Optiļ ni kontakt (podsklop) za vtiļ nico 900 Õm - Standard za proizvod

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

Luft- und Raumfahrt - Optische Rechtecksteckverbinder, Quadrax-Kontaktkammer, Durchmesser 2,5 mm Ferrule - Betriebstemperaturen - 65 °C bis 125 °C (vom Kabel abhängig) - Bündige Kontakte - Teil 202: Optische Kontakt für 900 µm festen Steckverbinder - Produktnorm

Série aérospatiale - Connecteurs, optique, rectangulaire, à contacts multiples, rackables, cavité Quadrax, férule diamètre 2,5 mm - Température d’utilisation - 65 °C à 125 °C (selon câble) - Contacts affleurants - Partie 202: Ensemble contact optique pour embase et câble 900 µm - Norme produit

Ta slovenski standard je istoveten z: EN 4626-202:2009

ICS:

49.060	Letalska in vesoljska elektriļ na oprema in sistemi	Aerospace electric equipment and systems

SIST EN 4626-202:2009 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4626-202

April 2009

ICS 49.090

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 202: Optical contact assembly for 900 µm buffered fibre receptacle - Product standard

Série aérospatiale - Connecteurs, optique, rectangulaire, à contacts multiples, rackables, cavité Quadrax, férule diamètre 2,5 mm - Température d'utilisation - 65 °C à 125 °C (selon câble) - Contacts affleurants - Partie 202: Ensemble contact optique pour embase et câble 900 µm - Norme produit

Luft- und Raumfahrt - Optische Rechtecksteckverbinder, Quadrax-Kontaktkammer, Durchmesser 2,5 mm Ferrule - Betriebstemperaturen - 65 °C bis 125 °C (vom Kabel abhängig) - Bündige Kontakte - Teil 202: Optische Kontaktfür 900 µm festen Steckverbinder - Produktnorm

This European Standard was approved by CEN on 4 July 2008.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 4626-202:2009: E

Contents

Page

Foreword

This document (EN 4626-202:2009) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

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 2009, and conflicting national standards shall be withdrawn at the latest by October 2009.

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.

1 Scope

This standard defines the dimensions and performance requirements of the EN 4531-101 fibre optical contact with a 900 µm buffered fibre EN 4641 and associated alignment boot for use within equipment boxes.

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

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*

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*

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 4641-001, *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*

ARINC 600, *Air transport avionics — Equipment interfaces* 1)

3 Optical contact dimensions

3.1 Ferrule

See Figure 1.

* And all its parts quoted in this standard.

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

Dimensions and tolerances are in millimetres.

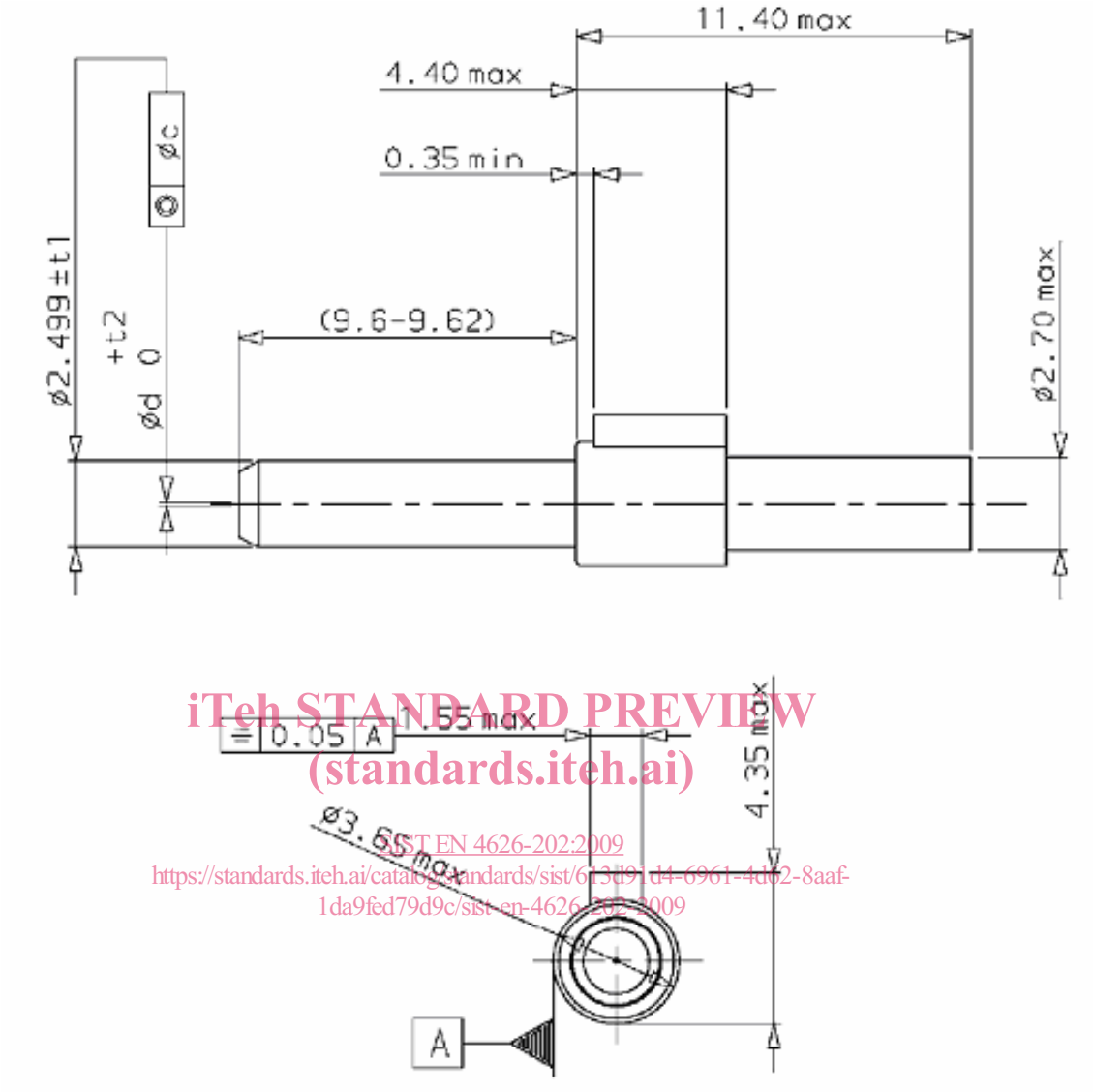


Figure 1

Dimensions of *t*1, *t*2, *c* and *d* of Figure 1 are detailed Table 1.

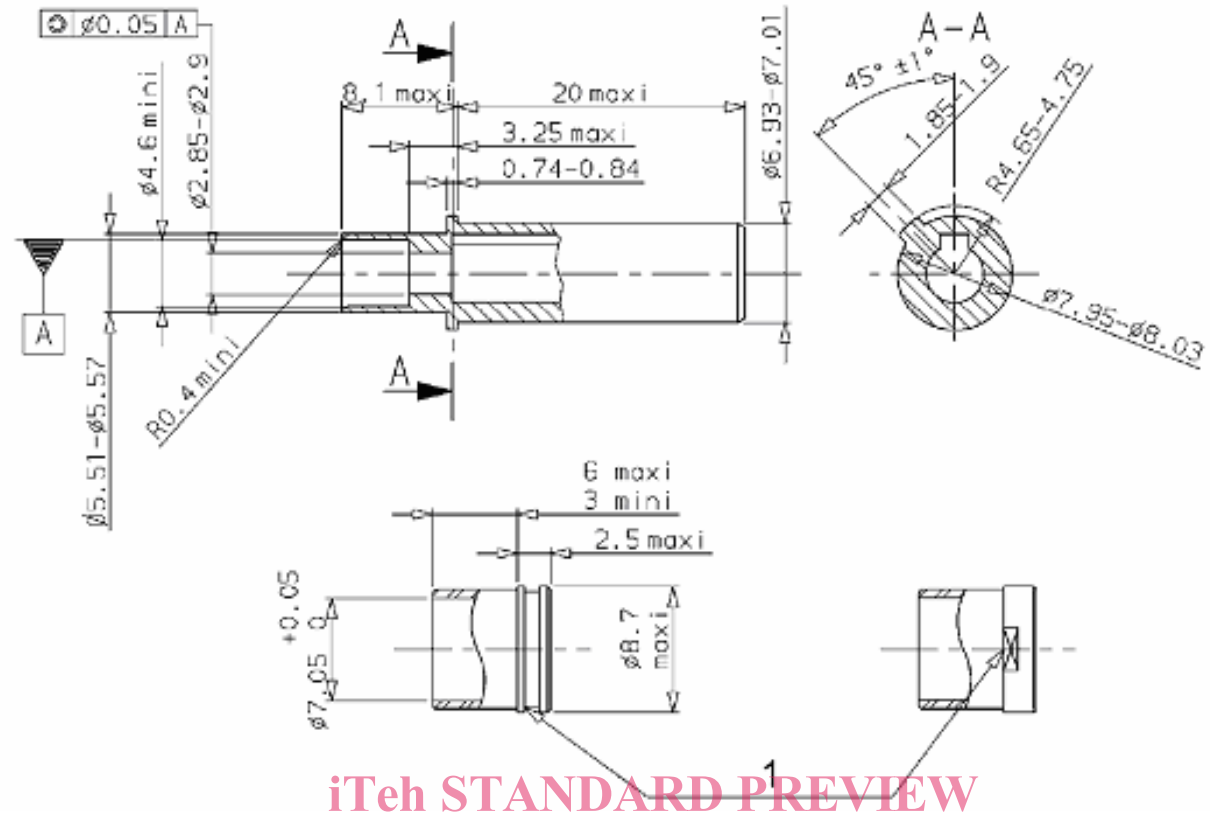
Table 1

EN 4626-	Cable	F.O. type	*c* µm	*d* µm	*t*1 µm	*t*2 µm
101	EN 4641-001	62,5/125	4	127	1,5	4

3.2 Optical contact assembled

3.2.1 Overall dimensions

See Figure 2.



Key

1 Groove or 2 flats for extraction

Figure 2

Other possible alignment boot design: see Figure 3.

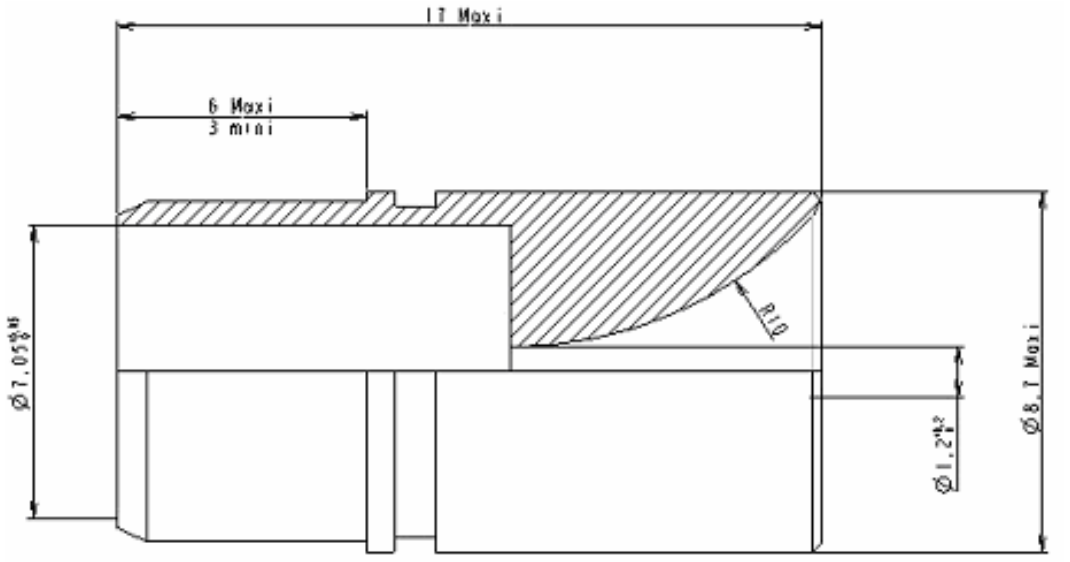


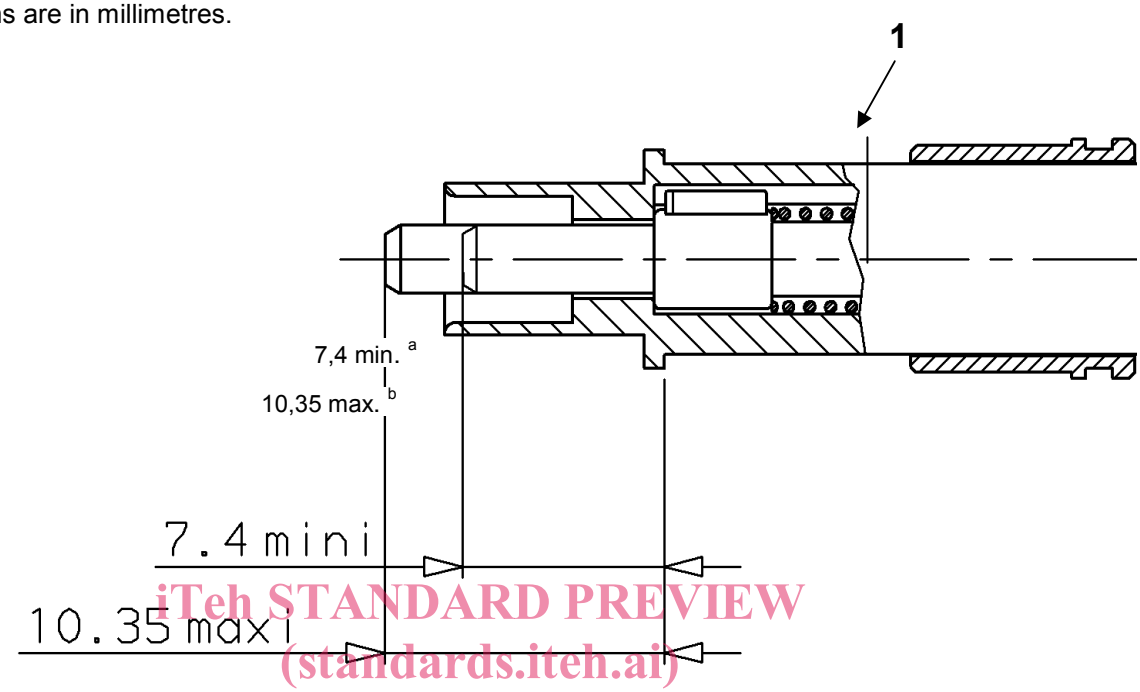
Figure 3

Mass value: (1,0 ± 0,3) g.

3.3 Interface dimensions

See Figure 4.

Dimensions are in millimetres.



Key

1 Alignment boot

[a] Rear bottoming position

[b] Relaxed position

Figure 4

Spring force when connector is mated:

Typical: 9 N (minimum 5 N, maximum 13 N).

Spring outer diameter shall be 3,95 mm maximum.

4 Technical specification

See EN 4626-001.

5 Tests

5.1 Tests according to EN 2591-100 Standard

See Table 2.