

# SLOVENSKI STANDARD

## SIST EN 3682-003:2014

01-april-2014

Nadomešča:

SIST EN 3682-003:2009

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**Aeronavtika - Konektorji, vtič in vtičnica, električni, pravokotni, zamenljivi tip, s stojalom in ploščo, s stalno delovno temperaturo do 150 °C - 003. del: Vložki - Standard za proizvod**

Aerospace series - Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous - Part 003: Inserts - Product standard

Luft- und Raumfahrt - Elektrischer Rechtecksteckverbinder, freie und feste Bauform, auswechselbare Isolierkörper, Gestell-Einschubsteckverbinder, Betriebstemperatur 150 °C konstant - Teil 003: Einsätze - Produktnorm

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Série aérospatiale - Connecteurs électriques rectangulaires rackables, fiches et embases, à inserts interchangeables, température d'utilisation 150 °C continu - Partie 003 : Inserts - Norme de produit

**Ta slovenski standard je istoveten z: EN 3682-003:2012**

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**ICS:**

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems
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**SIST EN 3682-003:2014**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 3682-003**

October 2012

ICS 49.060

Supersedes EN 3682-003:2006

English Version

**Aerospace series - Connectors, plug and receptacle, electrical,  
rectangular, interchangeable insert type, rack to panel, operating  
temperature 150 °C continuous - Part 003: Inserts - Product  
standard**

Série aérospatiale - Connecteurs électriques rectangulaires  
rackables, fiches et embases, à inserts interchangeables,  
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Gestell-Einschubsteckverbinder, Betriebstemperatur 150  
°C konstant - Teil 003: Einsätze - Produktnorm

This European Standard was approved by CEN on 25 February 2012.

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.

[SIST EN 3682-003:2014](https://standards.iteh.ai/catalog/standards/sist/en-3682-003-2014)

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



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

**Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## Foreword

This document (EN 3682-003:2012) 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 April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

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 document supersedes EN 3682-003:2006.

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

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**EN 3682-003:2012 (E)****1 Scope**

This European Standard defines the inserts used in EN 3682 connectors.

**2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 3682 (all parts), *Aerospace series — Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous*

**3 Terms and definitions**

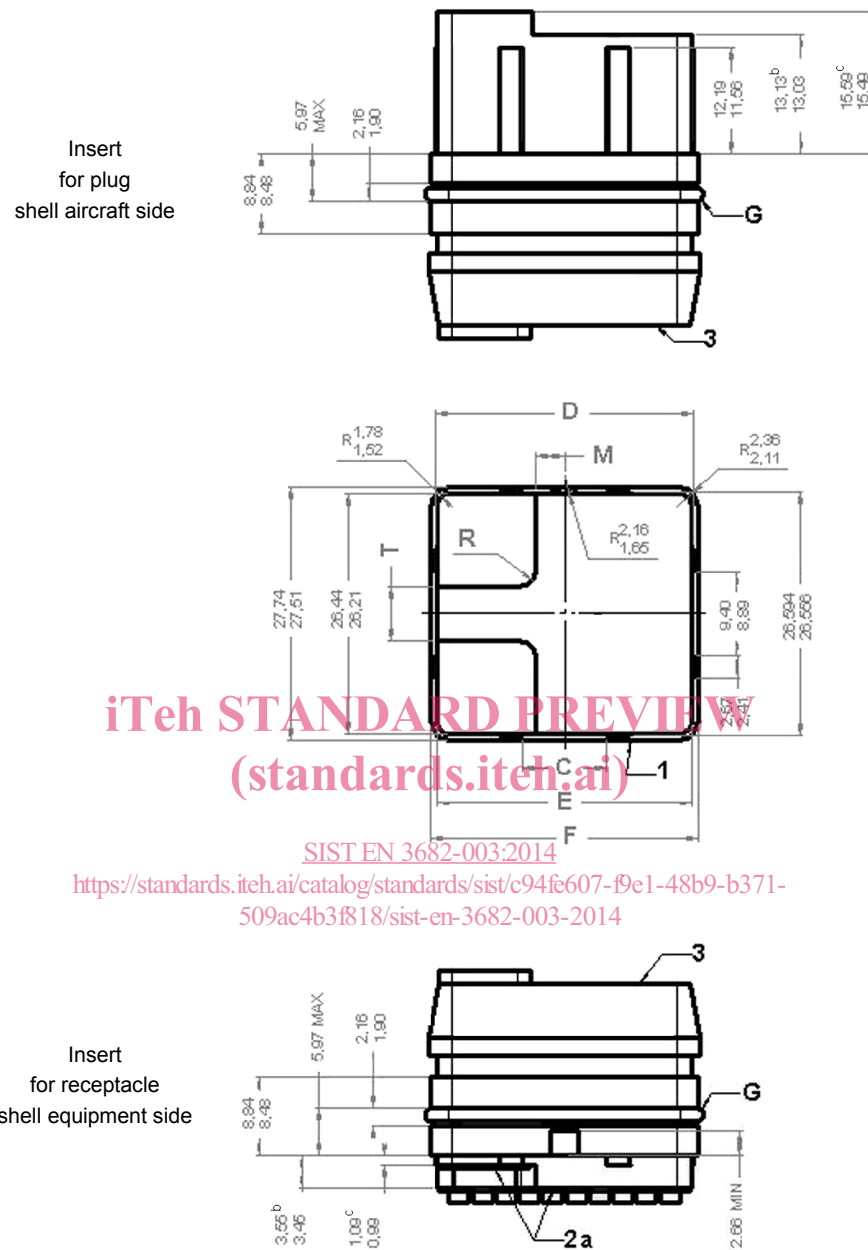
For the purposes of this document, the terms and definitions given in EN 3682-001 apply.

**4 Required characteristics****4.1 Insert interface dimensions for insert with size 22 contact cavities arrangements**

See Figures 1, 2 and Tables 1, 2 and 3.

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Dimensions in millimetres

**Key**

- 1 manufacturer name and part number on this side or opposite
- 2 interfacial seal
- 3 grommet
- a Interfacial seal applies to socket insert only.
- b Size 22.
- c Except size 22.

**Figure 1**

Table 1

Housing	Cavity	A	B	C	D	E	F	G	
								Ø cord	Ø inside
Plug	A, C, E	13,13 13,03	12,19 11,56	22,10 21,59	39,04 39,002	38,89 38,66	40,18 39,95	1,50	35,00
Receptacle	A, C, E	3,55 3,45	2,67 2,03						
Plug	B, D, F	13,13 13,03	12,19 11,56	9,40 8,89	27,864 27,826	27,71 27,48	29,01 28,78	1,50	27,81
Receptacle	B, D, F	3,55 3,45	2,67 2,03						

Table 2

Insert		M	T	R
118Q2	equipment side	9,30 max.	5,90 max.	1,57 max.
	aircraft side	9,60 min.	6,55 min.	1,57 min.
68Q2	equipment side	3,20 max.	6,00 max.	1,57 max.
	aircraft side	3,55 min.	6,40 min.	1,57 min.

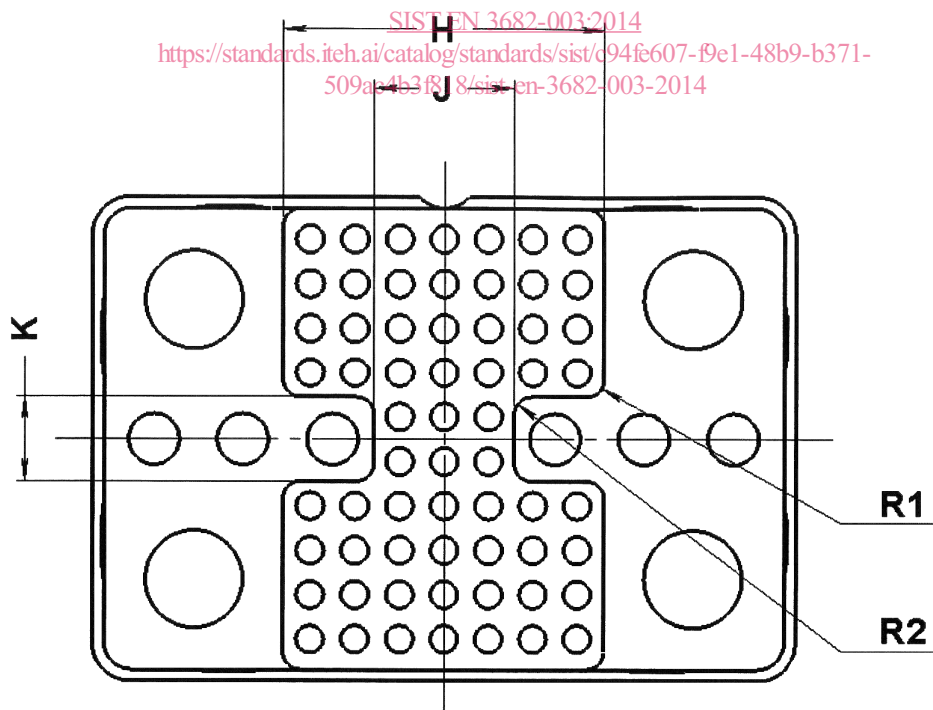


Figure 2

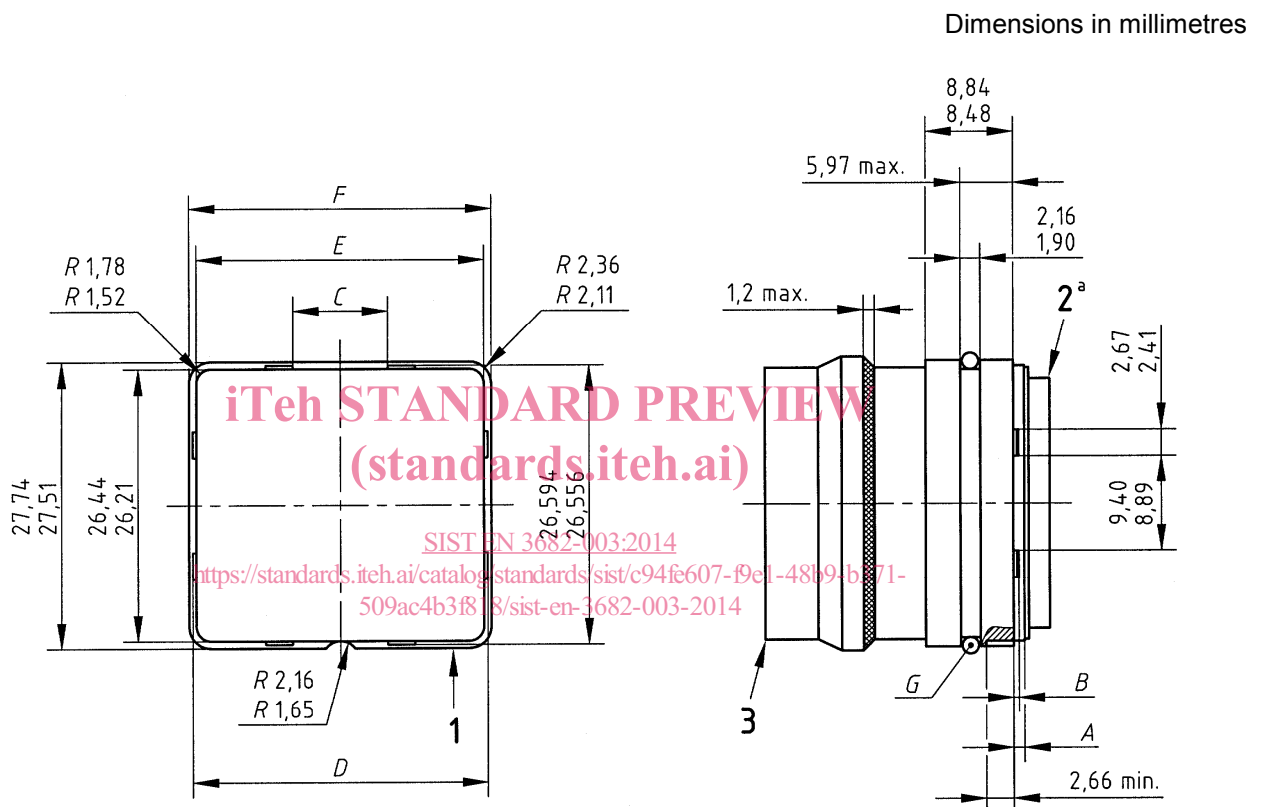


Table 3

Insert		<i>H</i>	<i>J</i>	<i>K</i>	<i>R</i> <sub>1</sub>	<i>R</i> <sub>2</sub>
68Q4	equipment side	8,00 max.	18,30 max.	4,80 min.	1,00 min.	1,00 max.
	aircraft side	9,00 min.	19,30 min.	3,80 max.	1,00 max.	1,00 max.

#### 4.2 Insert interface dimensions for insert without size 22 contact cavities arrangements

See Figure 3 and Table 4.



#### Key

- 1 manufacturer name and part number on this side or opposite
- 2 interfacial seal
- 3 grommet
- <sup>a</sup> Interfacial seal applies to pin insert only.

Figure 3