

**SLOVENSKI STANDARD****SIST EN 2997-014:2016****01-september-2016****Nadomešča:****SIST EN 2997-014:2011**

**Aeronautika - Konektorji, električni, okrogli, priključeni z navojnim obročkom, odporni ali neodporni proti ognju, s stalno delovno temperaturo med –65 °C in 175 °C, najvišjo 200 °C - 014. del: Podlaga s kvadratno prirobnico z vključenim priborom - Standard za proizvod**

Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures –65 °C to 175 °C continuous, 200 °C peak - Part 014: Square flange receptacle with integrated accessory - Product standard

Luft- und Raumfahrt - Elektrische Rundsteckverbinder mit Schraubkupplung, feuerbeständig oder nicht feuerbeständig, Betriebstemperaturen –65 °C bis 175 °C konstat, 200 °C konstat, 260 °C Spitze - Teil 014: Fester Steckverbinder mit quadratischem Montageflansch und integriertem Endgehäuse - Produktnorm

Série aérospatiale - Connecteurs électriques circulaires à accouplement par bague filetée, résistant au feu ou non, températures d'utilisation –65 °C à 175 °C continu, 200 °C continu, 260 °C en pointe - Partie 014 : Embase à fixation par collerette carrée avec accessoire intégré - Norme de produit

**Ta slovenski standard je istoveten z: EN 2997-014:2016**

**ICS:**

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

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SIST EN 2997-014:2016

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 2997-014

July 2016

ICS 49.060

Supersedes EN 2997-014:2011

English Version

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Luft- und Raumfahrt - Elektrische Rundsteckverbinder mit Schraubkupplung, feuerbeständig oder nicht feuerbeständig, Betriebstemperaturen -65 °C bis 175 °C konstant, 200 °C konstant, 260 °C Spitze - Teil 014: Fester Steckverbinder mit quadratischem Montageflansch und integriertem Endgehäuse - Produktnorm

## iTeh STANDARD PREVIEW

This European Standard was approved by CEN on 4 April 2016.  
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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.

[www.cen.eu](http://www.cen.eu) 2adc23857c36/sist-en-2997-014-2016

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.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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## European foreword

This document (EN 2997-014:2016) 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 European 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 January 2017, and conflicting national standards shall be withdrawn at the latest by January 2017.

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 2997-014:2011.

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, 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.

*SIST EN 2997-014:2016*

### 1 Scope

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This standard specifies the characteristics of square flange mounted receptacles with integrated accessory in the family of circular electrical connectors coupled by threaded ring.

It applies to class defined in Table 3.

For contacts, filler plugs associated with this receptacle, see EN 2997-002. For plugs, see EN 2997-008 and EN 2997-016 and for protective covers, see EN 2997-009.

### 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,

EN 2997-001, *Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures - 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak - Part 001: Technical specification*

EN 2997-002, *Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures - 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak - Part 002: Specification of performance and contact arrangements*

EN 2997-008, *Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures - 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak - Part 008: Plug - Product standard*

## EN 2997-014:2016 (E)

EN 2997-009, *Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures - 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak - Part 009: Protective cover for receptacle - Product standard*

EN 2997-016, *Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175°C continuous, 200°C continuous, 260°C peak - Part 016: Plug with integrated accessory - Product standard*

EN 3155-002, *Aerospace series - Electrical contacts used in elements of connection - Part 002: List and utilization of contacts*

### 3 Terms and definitions

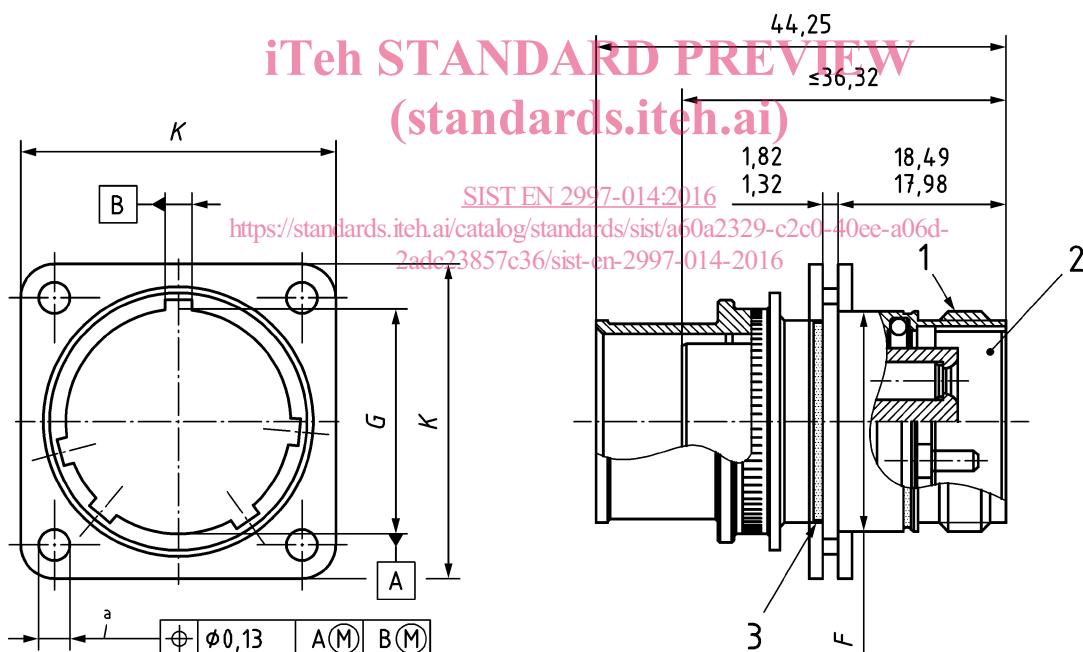
For the purposes of this standard, the terms and definitions given in EN 2997-001 apply.

### 4 Required characteristics

#### 4.1 Dimensions and mass

See Figure 1 and Table 1.

Dimensions and tolerances are in millimetres; they apply after surface treatment.



#### Key

- 1 Thread
- 2 See EN 2997-001
- 3 Blue colour band minimum width 0,64
- a 4 holes  $\varnothing 3,30$   $\varnothing 3,10$  housing sizes 8 to 22  
4 holes  $\varnothing 3,91$   $\varnothing 3,68$  housing sizes 24 to 28

NOTE Cable entry internal and external dimensions can be found in EN 2997-001.

**Figure 1 — Square flange receptacle**

**Table 1 — Square flange version (Figure 1)**

<b>Housing size</b>	<i>F</i> Ø max.	<i>G</i>	<i>K</i>		<b>Mass<sup>a</sup></b> g max.	
			max.	min.	<b>Stainless steel</b>	<b>Aluminium alloy</b>
08	14,27	15,09	20,75	20,49	25	—
10	17,67	18,26	23,93	23,67	40	—
12	22,22	20,62	26,32	26,06	48	—
14	23,77	23,01	28,71	28,45	60	—
16	26,97	24,61	31,88	31,62	70	—
18	30,15	26,97	34,24	33,98	81	—
20	33,32	29,36	36,63	36,37	—	—
22	36,49	31,75	39,80	39,54	—	—
24	39,67	34,92	43,39	43,13	110	—
28	46,02	39,67	50,93	50,67	—	—

<sup>a</sup> Mass without contacts.

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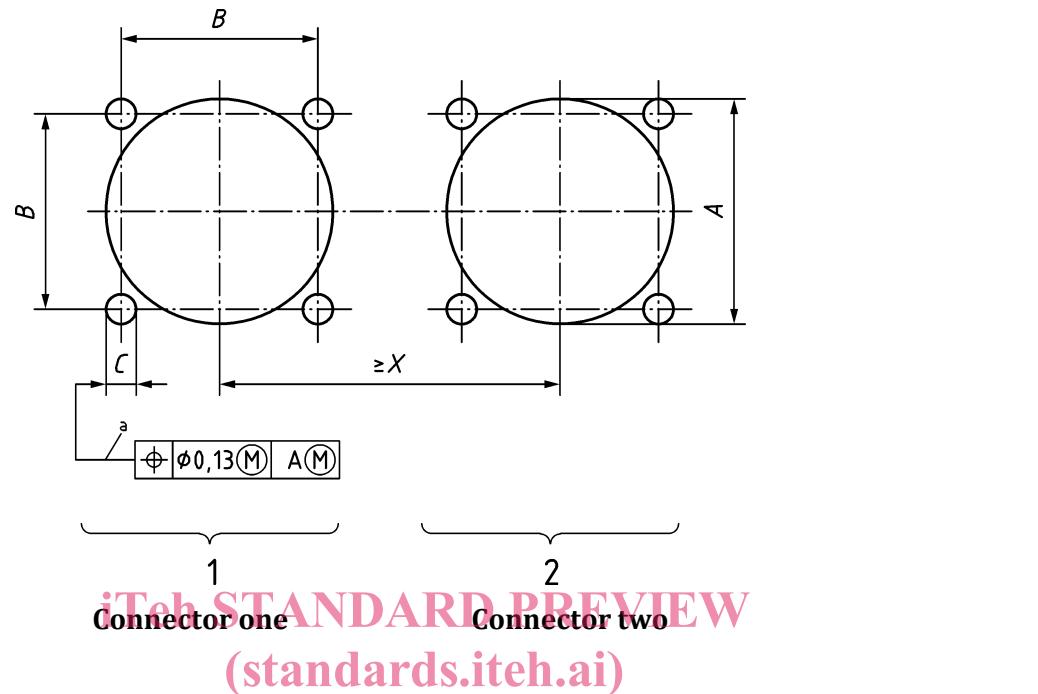
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## 4.2 Panel cut-out and mounting of connectors

See Figure 2 and Table 2 for panel cut-out and Figure 3 for mounting of connectors.

Dimensions and tolerances are in millimetres



### Key

a 4 holes  $\emptyset C$

$X$  min. value is calculated as follows:  $D/2$  connector one +  $D/2$  connector two (see Table 2 for value  $D$ ).

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Figure 2 — Minimum distance between two connectors ( $X$  min.)

Table 2 — Panel cut-out (Figure 2)

Housing size	A $\emptyset$ min.	B	C $\emptyset$	D min.
08	15,80	15,09	3,30 3,10	31,70
10	18,70	18,26		34,90
12	23,40	20,62		39,60
14	24,90	23,01		41,25
16	28,30	24,61		44,45
18	31,10	26,97		47,35
20	34,50	29,36		51,90
22	37,50	31,75		54,10
24	40,60	34,92		57,25
28	48,00	39,67		65,25

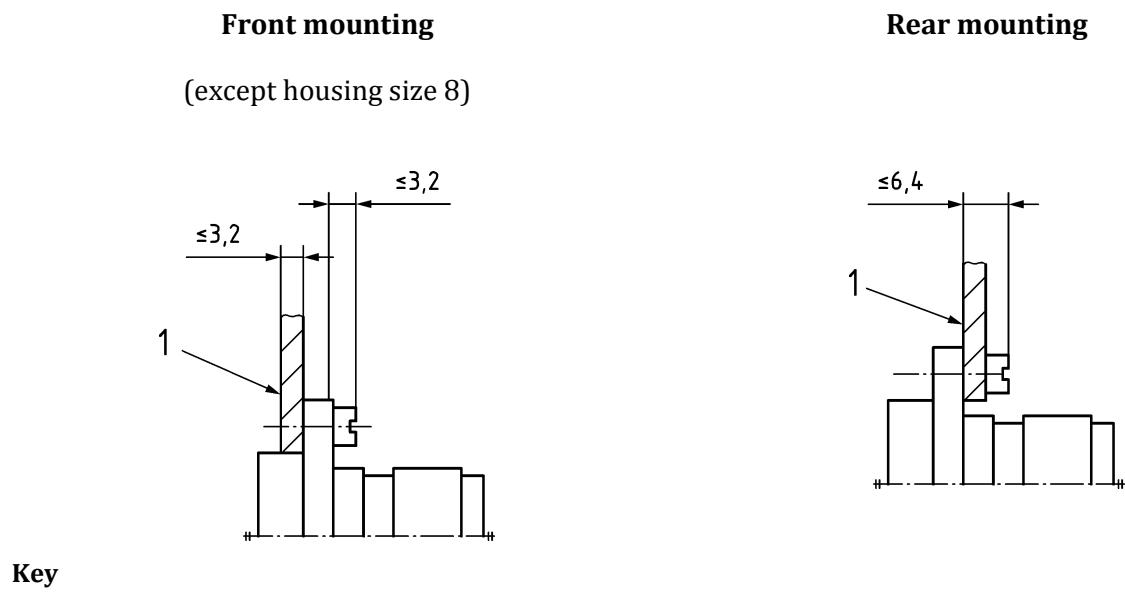


Figure 3 — Panel mounting

**4.3 Material, surface treatment****iTeh STANDARD PREVIEW**

See Table 3.

**(standards.iteh.ai)****4.4 Main general characteristics**

See EN 2997-002.

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<https://standards.iteh.ai/catalog/standards/sist/a60a2329-c2c0-40ee-a06d-0101185720/sist-2997-014-2016>**4.5 Possible combinations of plugs and receptacles**

See EN 2997-002.