

SLOVENSKI STANDARD

SIST EN 2997-005:2016

01-november-2016

Nadomešča:

SIST EN 2997-005:2012

Aeronavtika - Konektorji, električni, okrogli, priključeni z navojnim obročkom, odporni ali neodporni proti ognju, s stalno delovno temperaturo med –65 °C in 175 °C, stalno 200 °C, najvišjo 260 °C - 005. del: Hermetična podlaga s kvadratno prirobnico - 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 continuous, 260 °C peak - Part 005: Hermetic square flange receptacle - Product standard

(standards.iteh.ai)

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 005: Hermetischer fester Steckverbinder mit quadratischem Montageflansch - Produktnorm

Série aérospatiale - Connecteurs électriques circulaires à accouplement par bague fileté, résistant au feu ou non, températures d'utilisation – 65 °C à 175 °C continu, 200 °C continu, 260 °C en pointe - Partie 005 : Embase hermétique à fixation par collerette carrée - Norme de produit

Ta slovenski standard je istoveten z: EN 2997-005:2016

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 |

SIST EN 2997-005:2016

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 2997-005:2016](#)

<https://standards.iteh.ai/catalog/standards/sist/5390b743-c2fb-4035-9ff8-bd8b4332c948/sist-en-2997-005-2016>

EUROPEAN STANDARD

EN 2997-005

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2016

ICS 49.060

Supersedes EN 2997-005:2012

English Version

**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 005: Hermetic square
flange receptacle - Product standard**

Série aérospatiale - Connecteurs électriques circulaires
à accouplement par bague fileté, résistant au feu ou
non, températures d'utilisation - 65 °C à 175 °C
continu, 200 °C continu, 260 °C en pointe - Partie 005 :
Embase hermétique à fixation par collerette carrée -
Norme de produit

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 005:
Hermetischer fester Steckverbinder mit quadratischem
Montageflansch - Produktnorm

iTeh STANDARD PREVIEW
(standards.iteh.ai)

This European Standard was approved by CEN on 12 March 2016.

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.

<https://standards.iteh.ai/catalog/standards/sist/5390b743-c2fb-4035-9ff8-bd8b4332c948/sist-en-2997-005-2016>

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.

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

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

Contents

Page

| | |
|----------------------------------|---|
| European foreword..... | 3 |
| 1 Scope | 4 |
| 2 Normative references | 4 |
| 3 Terms and definitions | 4 |
| 4 Required characteristics | 5 |
| 5 Designation | 8 |
| 6 Marking | 9 |
| 7 Technical specification | 9 |

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 2997-005:2016](#)

<https://standards.iteh.ai/catalog/standards/sist/5390b743-c2fb-4035-9ff8-bd8b4332c948/sist-en-2997-005-2016>

European foreword

This document (EN 2997-005:2016) 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 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 March 2017, and conflicting national standards shall be withdrawn at the latest by March 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 2997-005:2012.

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.

EN 2997-005:2016 (E)**1 Scope**

This European Standard specifies the characteristics of hermetic square flange mounted receptacles in the family of circular electrical connectors coupled by threaded ring.

It applies to the class defined in Table 3.

For plugs and protective covers, see EN 2997-008 and EN 2997-009 respectively.

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 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*

[https://standards.iteh.ai/catalog/standards/sist/5390b743-c2fb-4035-9ff8-](https://standards.iteh.ai/catalog/standards/sist/5390b743-c2fb-4035-9ff8-bd8b4333c948/sist-en-2997-005-2016)

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*

3 Terms and definitions

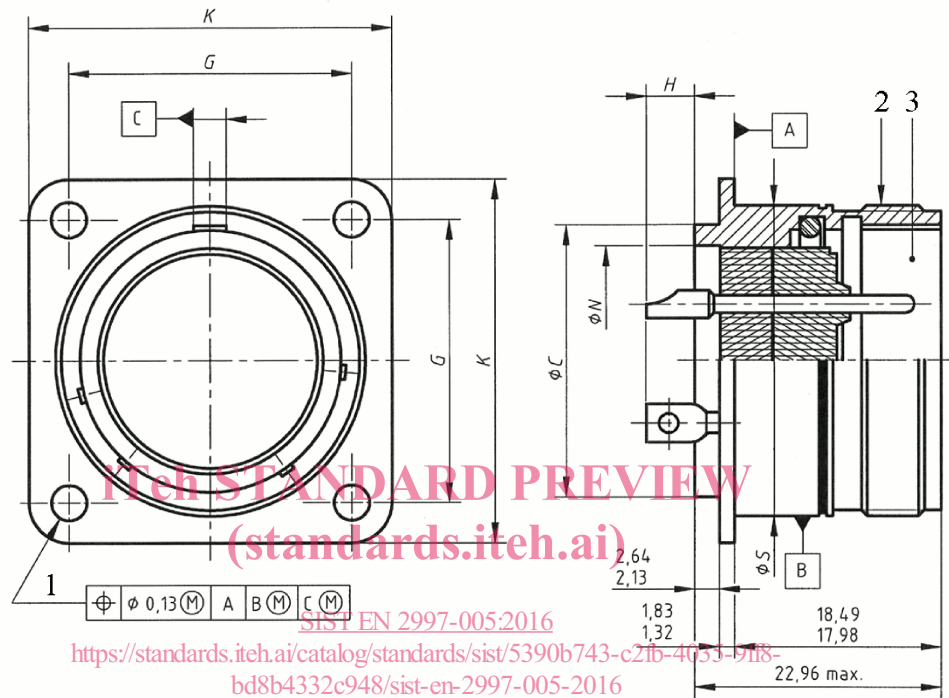
For the purposes of this document, the terms and definitions given in EN 2997-001 apply.

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 4 holes $\phi 3,30$ shell sizes 08 to 22
 $\phi 3,10$
- 4 holes $\phi 3,91$ shell sizes 24 to 28
 $\phi 3,68$
- 2 Thread
- 3 See EN 2997-001.

Figure 1

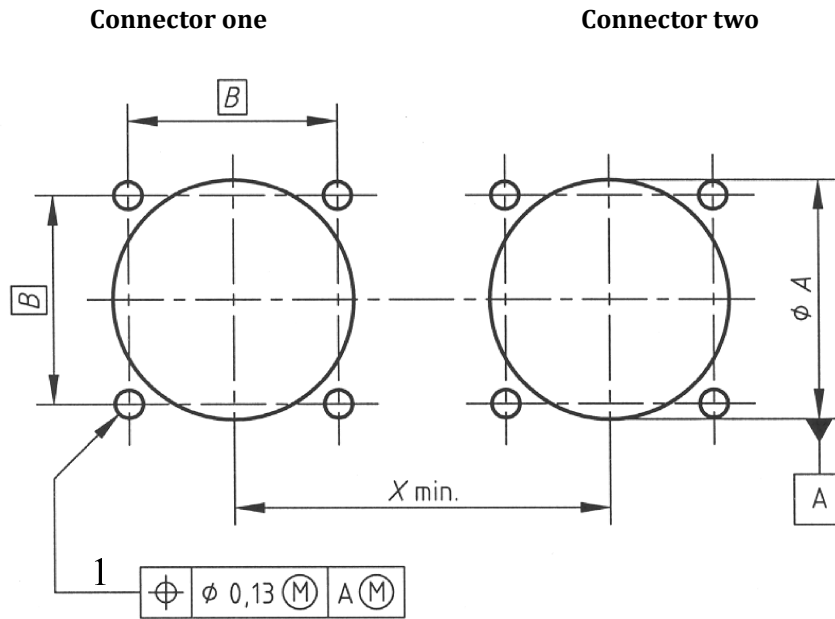
Table 1

| Housing size | $\varnothing C$ | G | H | | K max. | $\varnothing N$ min. | $\varnothing S$ max. | Mass g max. |
|--------------|-----------------|-------|--------------------|----------------------------|----------------|-------------------------|-------------------------|-------------------|
| | | | Size contact 20 | Size contacts 16 and 12 | | | | |
| 08 | 12,70 12,55 | 15,09 | 4,93 3,40 | 5,69 4,17 | 20,75 20,49 | 10,16 | 14,27 | 18 |
| 10 | 14,27 14,12 | 18,26 | | | 23,93 23,67 | 10,44 | 17,67 | 24 |
| 12 | 19,05 18,90 | 20,62 | | | 26,32 26,06 | 14,76 | 22,22 | 31 |
| 14 | 20,62 20,47 | 23,01 | | | 28,71 28,45 | 16,51 | 23,77 | 40 |
| 16 | 23,80 23,65 | 24,61 | | | 31,88 31,62 | 19,74 | 26,97 | 49 |
| 18 | 26,97 26,82 | 26,97 | | | 34,24 33,98 | 21,95 | 30,15 | 54 |
| 20 | 30,15 30,00 | 29,36 | | | 36,63 36,37 | 26,26 | 33,32 | 62 |
| 22 | 33,32 33,17 | 31,75 | | | 39,80 39,54 | 28,78 | 36,49 | 77 |
| 24 | 36,50 36,35 | 34,92 | | | 43,39 43,13 | 32,61 | 39,67 | 88 |
| 28 | 42,82 42,67 | 39,67 | | | 50,93 50,67 | 38,81 | 46,02 | 130 |

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**1 4 holes $\varnothing C$

iTeh STANDARD PREVIEW
(standards.iteh.ai)
 $X \text{ min.}$ value is calculated as follows: $D/2$ connector one + $D/2$ connector two. (See Table 2 for value D)

Figure 2

SIST EN 2997-005:2016

<https://standards.iteh.ai/catalog/standards/sist/2390b743-c2fb-4035-9ff8-bd8b4332c948/sist-en-2997-005-2016> **Table 2**

| Housing size | $\varnothing A$ min. | $\varnothing B$ | $\varnothing C$ | 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 | 3,91 | 57,25 |
| 28 | 48,00 | 39,67 | 3,68 | 65,25 |