



SLOVENSKI STANDARD SIST EN 2997-5:2001

01-januar-2001

Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175°C continuous, 200°C continuous, 260°C peak - Part 5: Hermetic square flange receptacle - Product standard

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iTeh STANDARD PREVIEW

Luft- und Raumfahrt - Elektrische Rundsteckverbinder mit Schraubkupplung, feuerbeständig oder nicht feuerbeständig, Betriebstemperaturen 175°C konstant, 200°C konstant, 260°C Spitze - Teil 5: Hermetischer fester Steckverbinder mit quadratischem Montageflansch - Produktnorm

<https://standards.iteh.ai/catalog/standards/sist/82f7cb37-6c35-47c7-a07e-29e0804c0745/sist-en-2997-5-2001>

Série aérospatiale - Connecteurs électriques circulaires a accouplement par bague fileté, résistant au feu ou non, températures d'utilisation 175°C continu, 200°C continu, 260°C en pointe - Partie 5: Embase hermétique a fixation par collerette carrée - Norme de produit

Ta slovenski standard je istoveten z: EN 2997-5:1997

ICS:

49.060 Štejni aparati in oprema za letalstvo in zračne sile Aerospace electric equipment and systems

SIST EN 2997-5:2001 en

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EUROPEAN STANDARD

EN 2997-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 1997

ICS 49.060

Descriptors: aircraft industry, connecting equipment, electric connectors, fixing, bed plates, specifications

English version

**Aerospace series - Connectors, electrical, circular,
coupled by threaded ring, fire-resistant or non
fire-resistant, operating temperatures 175°C
continuous, 200°C continuous, 260°C peak -
Part 5: Hermetic square flange receptacle -
Product standard**

Série aérospatiale - Connecteurs électriques
circulaires à accouplement par bague filetée,
résistant au feu ou non, températures
d'utilisation 175°C continu, 200°C continu,
260°C en pointe - Partie 5: Embase hermétique
à fixation par collerette carrée - Norme de
produit

Luft- und Raumfahrt - Elektrische
Rundsteckverbinder mit Schraubkupplung,
feuerbeständig oder nicht feuerbeständig,
Betriebstemperaturen 175°C konstant, 200°C
konstant, 260°C Spitze - Teil 5: Hermetischer
fester Steckverbinder mit quadratischem
Montageflansch - Produktnorm

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

1 Scope

This 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 models defined in table 4.

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

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- EN 2997-001 Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175 °C continuous, 200 °C continuous, 260 °C peak - Part 001 : Technical specification ¹⁾
- EN 2997-002 Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175 °C continuous, 200 °C continuous, 260 °C peak - Part 002 : Specification of performance and contact arrangements ¹⁾
- EN 2997-008 Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175 °C continuous, 200 °C continuous, 260 °C peak - Part 008 : Plug Product standard ¹⁾
- EN 2997-009 Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures 175 °C continuous, 200 °C continuous, 260 °C peak - Part 009 : Protective cover for receptacle - Product standard ¹⁾

3 Terminology

See EN 2997-001.

1) Published as AECMA Prestandard at the date of publication of this standard

4 Required characteristics

4.1 Dimensions, mass

See figure 1 and table 1.

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

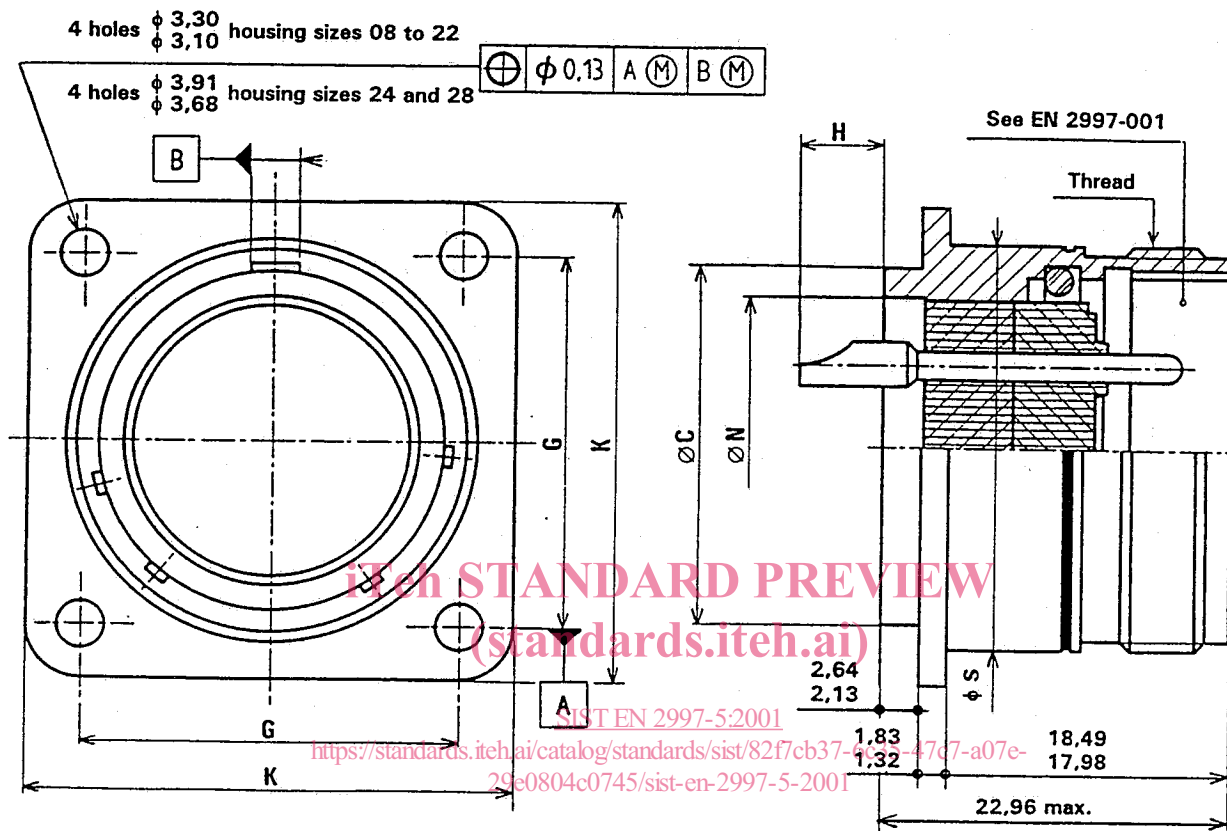


Figure 1

Table 1

| Housing size | C | G | H | | K max. | N min. | S max. | Mass g max. |
|--------------|----------------|-------|--------------|--------------------|----------------|--------|--------|-------------|
| | | | Contacts 20 | 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 millimeters.

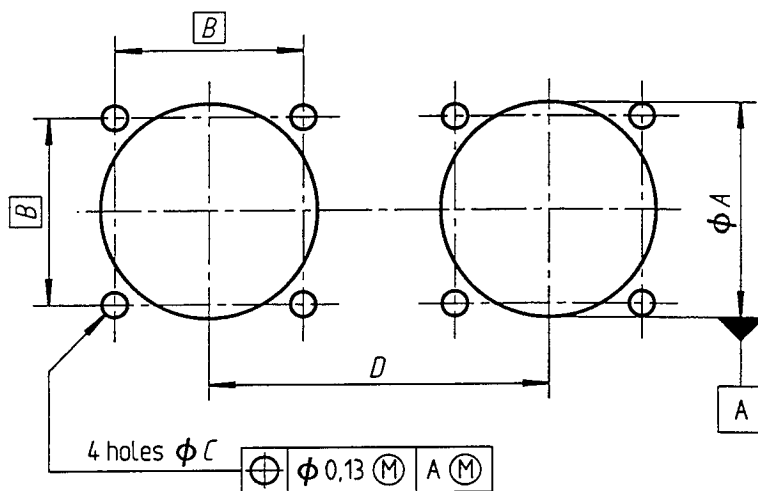
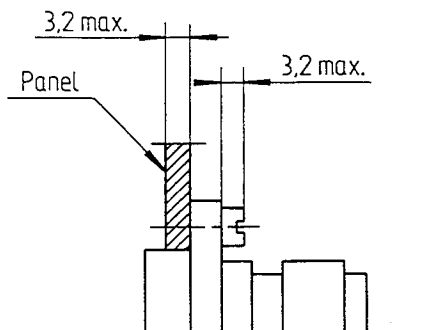


Figure 2

Table 2

| Housing size | A min. | B | C | D min. |
|--------------|--------|-------|------|--------|
| 08 | 15,80 | 15,09 | | 31,70 |
| 10 | 18,70 | 18,26 | | 34,90 |
| 12 | 23,40 | 20,62 | | 39,60 |
| 14 | 24,90 | 23,01 | 3,30 | 41,25 |
| 16 | 28,30 | 24,61 | 3,10 | 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 |

Front mounting



Rear mounting

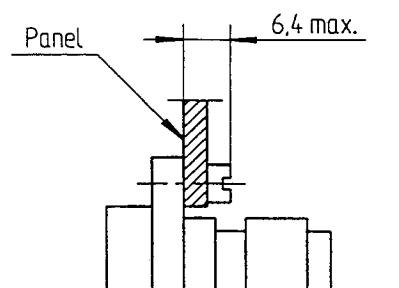


Figure 3

4.3 Material, surface treatment

See table 4.

4.4 Main general characteristics

See EN 2997-002.

4.5 Possible combinations of plugs and receptacles

See table 3.

Table 3

| | | |
|-------------|--------|----------|
| Receptacles | Y | YE |
| Plugs | K or S | KE or SE |

5 Designation

EXAMPLE :

| Description block | Identity block |
|---|---|
| ELECTRICAL CONNECTOR, RECEPTACLE | EN2997Y02457M6 |
| Number of the basic standard _____ | (standards.iteh.ai) SIST EN 2997-5:2001 https://standards.iteh.ai/catalog/standards/sist/82f7cb37-6c35-47c7-a07e-29e0804c0745/sist-en-2997-5-2001 |
| Model (see table 4) _____ | |
| Hermetic square-flange mounted receptacle (see EN 2997-002) _____ | |
| Housing size and contact arrangement (see EN 2997-002) _____ | |
| Type of contact : M : male _____ | |
| Polarization (see EN 2997-002) _____ | |

NOTE : If necessary, the code I9005 shall be placed between the description block and the identity block.

Table 4 : Connector models

| Models | Description |
|--------|--|
| Y | Hermetic receptacle with housing (shell) in passivated stainless steel, solder contacts, maximum operating temperature 200 °C continuous |
| YE | Hermetic receptacle with housing (shell) in passivated stainless steel, solder contacts, maximum operating temperature 260 °C peak |