

SLOVENSKI STANDARD**SIST EN 2997-7:2001****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 7: Hermetic receptacle with round flange attached by soldering or brazing - Product standard

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 7: Hermetic receptacle with round flange attached by soldering or brazing - Product standard

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Luft- und Raumfahrt - Elektrische Rundsteckverbinder mit Schraubkupplung, feuerbeständig oder nicht feuerbeständig, Betriebstemperaturen 175°C konstant, 200°C konstant, 260°C Spitze - Teil 7: Hermatischer fester Steckverbinder mit rundem Schweiß- oder Lötflansch - Produktnorm

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 7: Embase hermétique à collerette ronde fixée par soudure ou brasage - Norme de produit

Ta slovenski standard je istoveten z: EN 2997-7:1997

ICS:

49.060 Ščipalnikovski inštitut
Aerospace electric
equipment and systems

SIST EN 2997-7:2001

en

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EUROPEAN STANDARD

EN 2997-7

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 1997

ICS 49.060

Descriptors: aircraft industry, connecting equipment, electric connectors, fixing, welding, 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 7: Hermetic receptacle with round flange
attached by soldering or brazing - Product
standard**

Série aéronautique - 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 7: Embase hermétique
à collerette ronde fixée par soudure ou brasage
- Norme de produit

Luft- und Raumfahrt - Elektrische
Rundsteckverbinder mit Schraubkupplung,
feuerbeständig oder nicht feuerbeständig,
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konstant, 260°C Spitze - Teil 7: Hermetischer
fester Steckverbinder mit rundem Schweiß- oder
Lötflansch - Produktnorm

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<https://standards.iteh.ai/catalog/standards/sist/5ae8a72a-84e1-45c0-98ca-88b8c99755d7/sist-en-2997-7-2001>

This European Standard was approved by CEN on 1996-08-04. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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

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

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Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries 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 AECMA, 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 December 1997, and conflicting national standards shall be withdrawn at the latest by December 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

SIST EN 2997-7:2001
<https://standards.cen.europa.eu/standard/ss1/Sae8a72a-84e1-45c0-98ca-8858c0c435d7> SIST EN 2997-7:2001
EUROPEAN STANDARD
AEROSPACE INDUSTRY
ANALOGUE

1 Scope

This standard specifies the characteristics of hermetic receptacles with round flange attached by welding or brazing in the family of circular electrical connectors coupled by threaded ring.

It applies to the models defined in table 4.

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⁾
<small>https://standards.iteh.ai/catalog/standards/sst/5ae8a72a-84e1-45c0-98ca-88b82075a47/1/en/2997-1001</small> |
| 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 are in millimeters ; they apply after surface treatment.

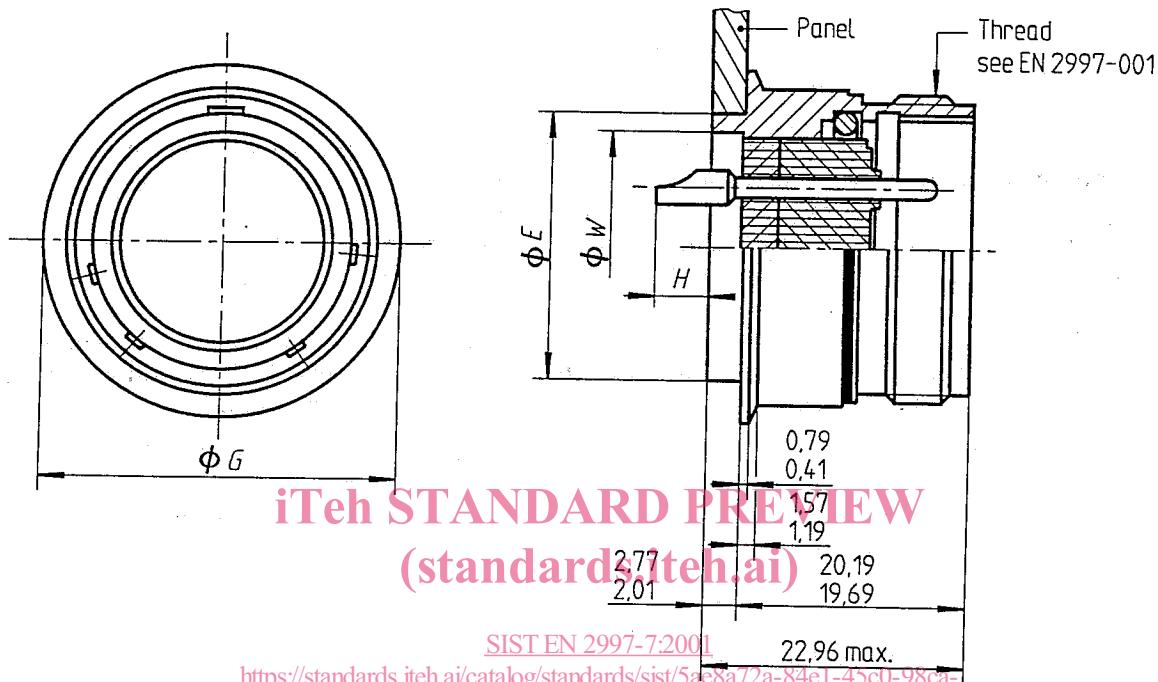


Figure 1

Table 1

Housing size	E	G	Contacts 20	H	Contacts 16 and 12	W min.	Mass g max.
08	12,70 12,55	18,36 17,86	4,93 3,40	5,69 4,17	10,16 10,44 14,76 16,51 19,74 21,95 26,26 28,78 32,61 38,81	10,16	15
10	14,27 14,12	21,59 21,08				10,44	21
12	19,05 18,90	26,80 26,29				14,76	31
14	20,62 20,47	27,94 27,43				16,51	35
16	23,80 23,65	30,99 30,48				19,74	46
18	26,97 26,82	34,39 33,78				21,95	51
20	30,15 30,00	37,34 36,83				26,26	59
22	33,32 33,17	40,64 40,13				28,78	73
24	36,50 36,35	43,68 43,17				32,61	86
28	42,82 42,67	50,21 49,70				38,81	125

4.2 Panel cut-out

See figure 2 and table 2.
Dimensions are in millimeters.

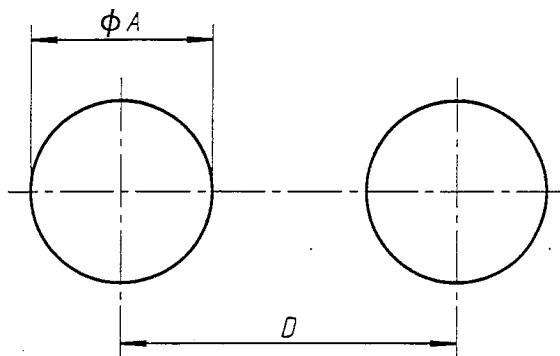


Figure 2

Table 2

Housing size	A min.	D min.
08	12,96	31,70
10	14,53	34,90
12 SIST EN 2997-7:2001	19,3001	39,60
14	20,88	41,25
16	24,05	44,45
18	27,23	47,35
20	30,40	51,90
22	33,58	54,10
24	36,75	57,25
28	43,08	65,25

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

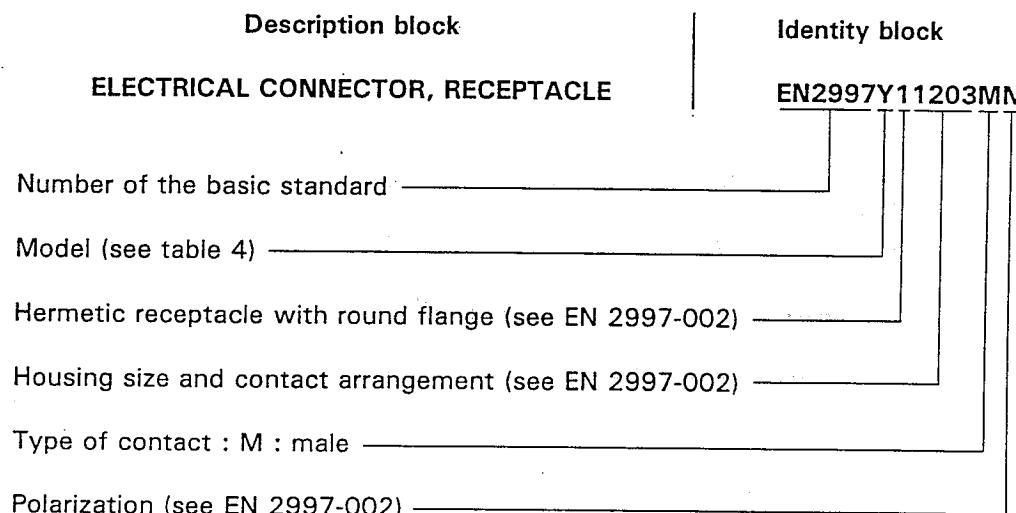
See table 3.

Table 3

Receptacles	Y	YE
Plugs	K or S	KE or SE

5 Designation

EXAMPLE :



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

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Table 4 : Connector models

Models	SIST EN 2997-7:2001 https://standards.iteh.ai/catalog/standards/sist-en-2997-7-2001	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	

6 Marking

Unless there are other specific contractual requirements, the marking shall include :

- the identity block as defined in 5;
- the date of manufacture (year, week);
- the manufacturer's name or trade mark.

7 Technical specification

See EN 2997-001.