



SLOVENSKI STANDARD SIST EN 2997-8:2001

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 8: Plug - 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 8: Freier Steckverbinder - Produktnorm

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Série aérospatiale - Connecteurs électriques circulaires à accouplement par bague fileté, résistant au feu ou non, températures d'utilisation 175°C continu, 200°C continu, 260°C en pointe - Partie 8: Fiche - Norme de produit

Ta slovenski standard je istoveten z: EN 2997-8:1997

ICS:

49.060 Številni sistemi za povezavo električnih naprav in sistemov za povezavo električnih naprav in sistemov Aerospace electric equipment and systems

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EUROPEAN STANDARD

EN 2997-8

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 1997

ICS 49.060

Descriptors: aircraft industry, connecting equipment, electric connectors, connector plugs, 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 8: Plug - 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 8: Fiche - Norme de
produit

Luft- und Raumfahrt - Elektrische
Rundsteckverbinder mit Schraubkupplung,
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Betriebstemperaturen 175°C konstant, 200°C
konstant, 260°C Spitze - Teil 8: Freier
Steckverbinder - Produktnorm

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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.

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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

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.

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PRESET FOR REPRODUCTION

1 Scope

This standard specifies the characteristics of plugs in the family of circular electrical connectors coupled by threaded ring.

It applies to the models defined in table 3.

For contacts, filler plugs and rear accessories associated with this plug, see EN 2997-002. For receptacles and protective covers, see EN 2997-003 to EN 2997-007 and EN 2997-010 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 2997-003 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 003 : Square flange receptacle - Product standard ¹⁾
- EN 2997-004 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 004 : Jam-nut mounted receptacle - Product standard ¹⁾
- EN 2997-005 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 005 : Hermetic square flange receptacle - Product standard ¹⁾
- EN 2997-006 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 006 : Hermetic jam-nut mounted receptacle - Product standard ¹⁾
- EN 2997-007 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 007 : Hermetic receptacle with round flange attached by soldering or brazing - Product standard ¹⁾
- EN 2997-010 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 010 : Protective cover for plug - Product standard ¹⁾
- EN 3155-002 Aerospace series - Electrical contacts used in elements of connection - Part 002 : List and utilization of contacts ¹⁾

3 Terminology

See EN 2997-001.

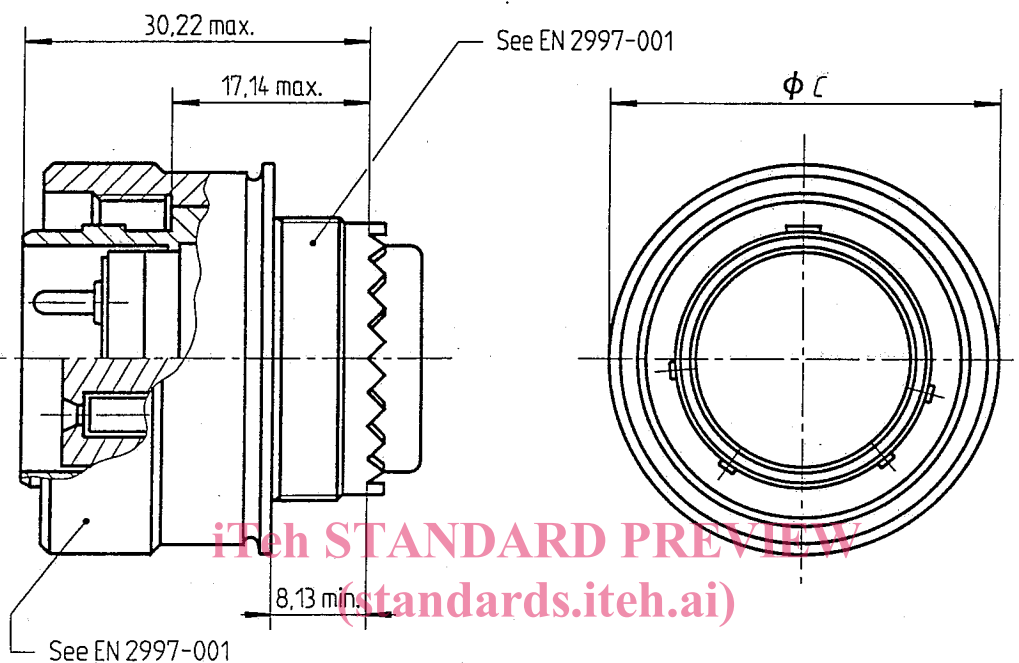
1) Published as AECMA Prestandard at the date of publication of this standard

4 Required characteristics

4.1 Dimensions, mass

See figure 1 and table 1.

Dimensions are in millimeters ; they apply after surface treatment.



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 Figure 1

Table 1

Housing size	C	Mass g ¹⁾ max.	
		Stainless steel	Aluminium alloy
08	21,30	31	14
10	24,90	44	21
12	29,60	57	26
14	31,24	72	38
16	34,42	82	39
18	37,34	95	43
20	41,91	108	48
22	44,07	121	65
24	47,24	134	67
28	55,24	160	103

1) Mass without accessory and without contact

4.2 Material, surface treatment

See table 3.

4.3 Main general characteristics

See EN 2997-002.

4.4 Possible combinations of plugs and receptacles

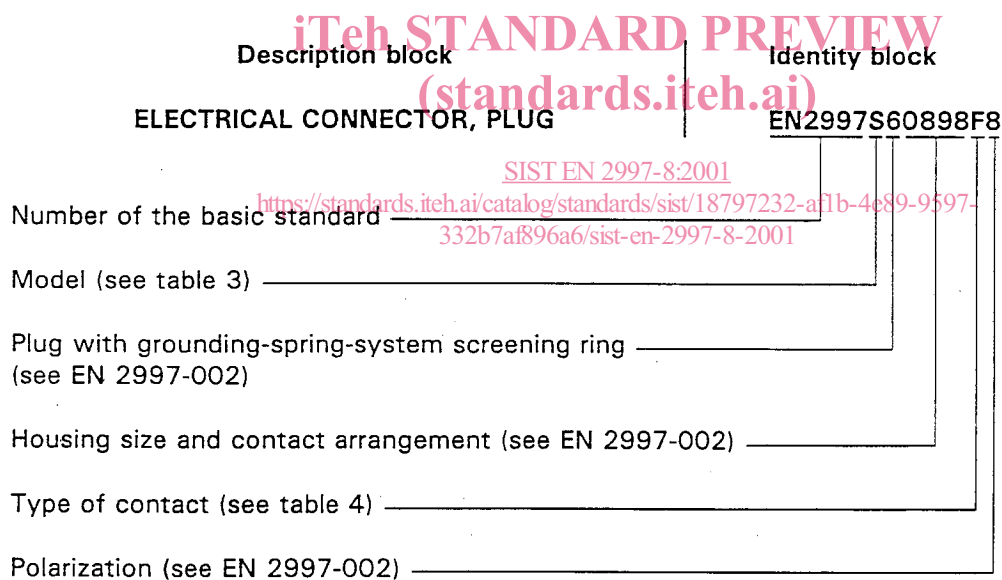
See table 2.

Table 2

Plugs	W	WS	K	R	RS	S	KE	SE
Receptacles	WS	WS	S or Y	RS or Y	RS or Y	S or Y	SE or YE	SE or YE

5 Designation

EXAMPLE :



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

Table 3 : Connector models

Models	Description
W	Sealed plug with housing (shell) in olive-green, cadmium-plated aluminium alloy, conducting finish, 500 h resistance to salt mist, crimp contacts, maximum operating temperature 175 °C continuous
WS	Sealed plug with housing (shell) in olive-green, cadmium-plated aluminium alloy, conducting finish, 500 h resistance to salt mist, crimp contacts, with ground-spring-system screening ring, maximum operating temperature 175 °C continuous
K	Sealed plug with housing (shell) in passivated stainless steel, crimp contacts, fire-resistant, maximum operating temperature 200 °C continuous
R	Sealed plug with housing (shell) in nickel-plated aluminium alloy, crimp contacts, maximum operating temperature 200 °C continuous
RS	Sealed plug with housing (shell) in nickel-plated aluminium alloy, crimp contacts, with grounding-spring-system screening ring, maximum operating temperature 200 °C continuous
S	Sealed plug with housing (shell) in passivated stainless steel, crimp contacts, fire-resistant, with grounding-spring-system screening ring, maximum operating temperature 200 °C continuous
KE	Sealed plug with housing (shell) in passivated stainless steel, crimp contacts, fire-resistant, maximum operating temperature 260 °C peak
SE	Sealed plug with housing (shell) in passivated stainless steel, crimp contacts, fire-resistant, with grounding-spring-system screening ring, maximum operating temperature 260 °C peak

Table 4 : Types of contacts and delivery

Contacts	Delivered without contact	Delivered with contacts with standard barrels 1) EN 3155-XXXX2020 EN 3155-XXXX1616 EN 3155-XXXX1212	Delivered with specific contacts size 20 with special barrel 1) EN 3155-XXXX2018 2)
Male	A	M	C
Female	B	F	D

1) See EN 3155-002.
2) Only affects size 20 contact arrangements