SLOVENSKI STANDARD
SIST EN 2997-9:2001

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 9: Protective cover for receptacle - 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 9: Schutzkappe für festen Steckverbinder - Produktnorm

Série aérospatiale - Connecteurs électriques circulaires a accouplement par bague filetée, résistant au feu ou non, températures d'utilisation 175°C continu, 200°C continu, 260°C en pointe - Partie 9: Bouchon de vol pour embase - Norme de produit

Ta slovenski standard je istoveten z: **EN 2997-9:1997**

ICS:

49.060	Letalska in vesoljska elektriļ na oprema in sistemi	Aerospace electric equipment and systems

SIST EN 2997-9:2001 **en**

EUROPEAN STANDARD **EN 2997-9**

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English version

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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.

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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of an identical text or by endorsement, at the latest by December 1997, and conflicting national standards shall be withdrawn at the latest by December 1997.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.

1 Scope

This standard specifies the characteristics of protective covers for receptacles in the family of circular electrical connectors coupled by threaded ring.

It applies to the models defined in table 3.

For receptacles associated with these protective covers, see EN 2997-003 to EN 2997-007.

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)]

FED-STD-H28 : 1978 Screw-thread standards for federal services [2)]

3 Terminology

See EN 2997-001.

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1) Published as AECMA Prestandard at the date of publication of this standard
2) Published by : Department of Defense (DOD), the Pentagon, Washington, D.C. 20301 USA

4 Required characteristics

4.1 Dimensions, mass

See figure 1 and table 1.
Dimensions and tolerances are in millimeters ; they apply after surface treatment.

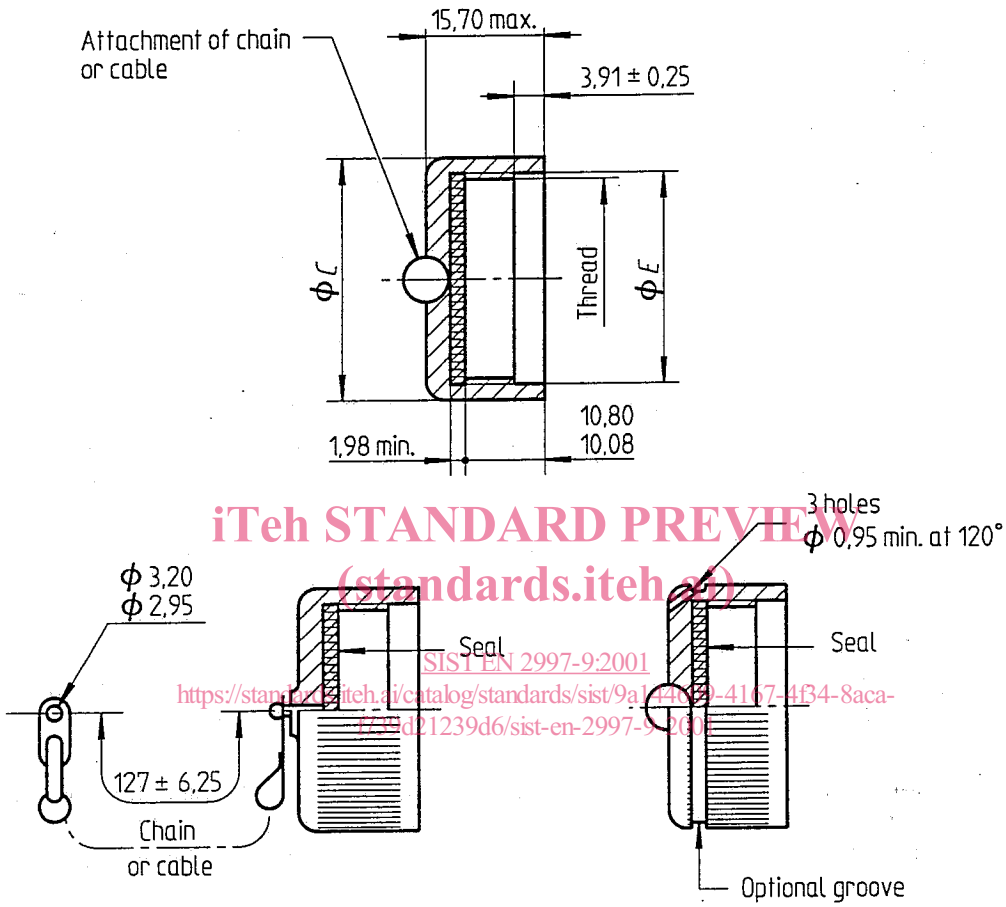


Figure 1

Table 1

Housing size	Thread class 2B [1]	*C* max.	*E* minimum bore	Mass g max. Stainless steel	Mass g max. Aluminium alloy
08	0,5625-24UNEF	19,71	14,61	26,2	9,5
10	0,6875-24UNEF	23,01	17,96	33,6	12,1
12	0,8750-20UNEF	27,38	22,73	43,5	15,6
14	0,9375-20UNEF	28,98	24,31	47,8	17,1
16	1,0625-16UNEF	32,16	27,53	56,8	20,4
18	1,1875-18UNEF	34,93	30,71	62,9	22,6
20	1,3125-16UNEF	38,35	33,88	75,5	27,1
22	1,4375-18UNEF	41,29	37,06	84,0	30,1
24	1,5625-18UNEF	44,70	40,23	97,7	35,1
28	1,8125-16UN	50,80	46,58	120,2	43,1

1) FED-STD-H28

4.2 Material, surface treatment

See table 3.

4.3 Main general characteristics

See EN 2997-002.

4.4 Possible combinations of protective covers and connectors

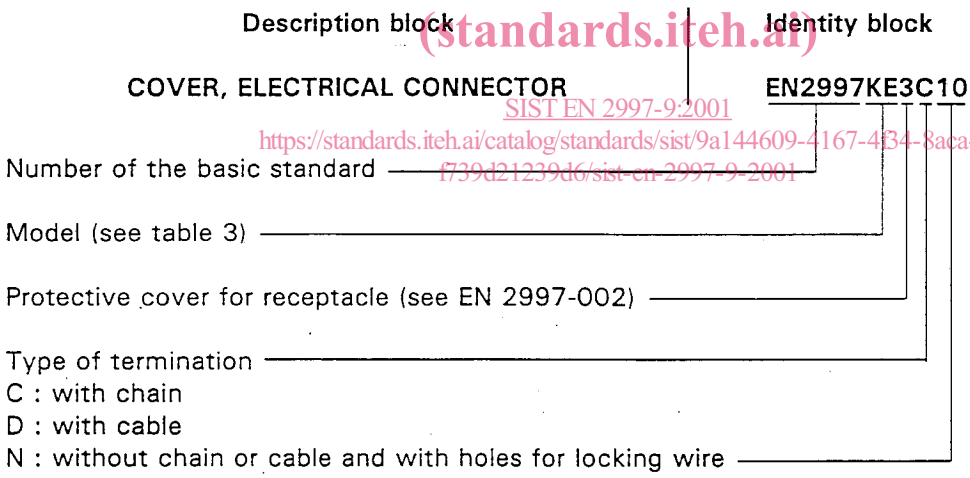
See table 2.

Table 2

Protective covers for receptacles	R	KE	W
Receptacles	RS	S or Y or SE or YE	WS

5 Designation

EXAMPLE :



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

Table 3 : Protective cover models

Models	Description
R	Protective cover for receptacle in nickel-plated aluminium alloy, maximum operating temperature 200 °C continuous
W	Protective cover for receptacle in olive-green cadmium-plated aluminium alloy, maximum operating temperature 175 °C continuous
KE	Protective cover for receptacle in passivated stainless steel, 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.