



SLOVENSKI STANDARD
SIST EN 2997-10:2001
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 10: Protective cover for plug - Product standard

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Ta slovenski standard je istoveten z: EN 2997-10:1997

ICS:

49.060 Štejni in električni zvezi za letalske sisteme
 Aerospace electric equipment and systems

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EUROPEAN STANDARD

EN 2997-10

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 1997

ICS 49.060

Descriptors: aircraft industry, connecting equipment, electric connectors, stoppers, 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 10: Protective cover for plug - 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 10: Bouchon de vol
pour fiche - 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 10: Schutzkappe
für freien Steckverbinder - Produktnorm

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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.

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

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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1 Scope

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

It applies to the models defined in table 3.

For plugs associated with these protective covers, see EN 2997-008.

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

3 Terminology

See EN 2997-001.

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

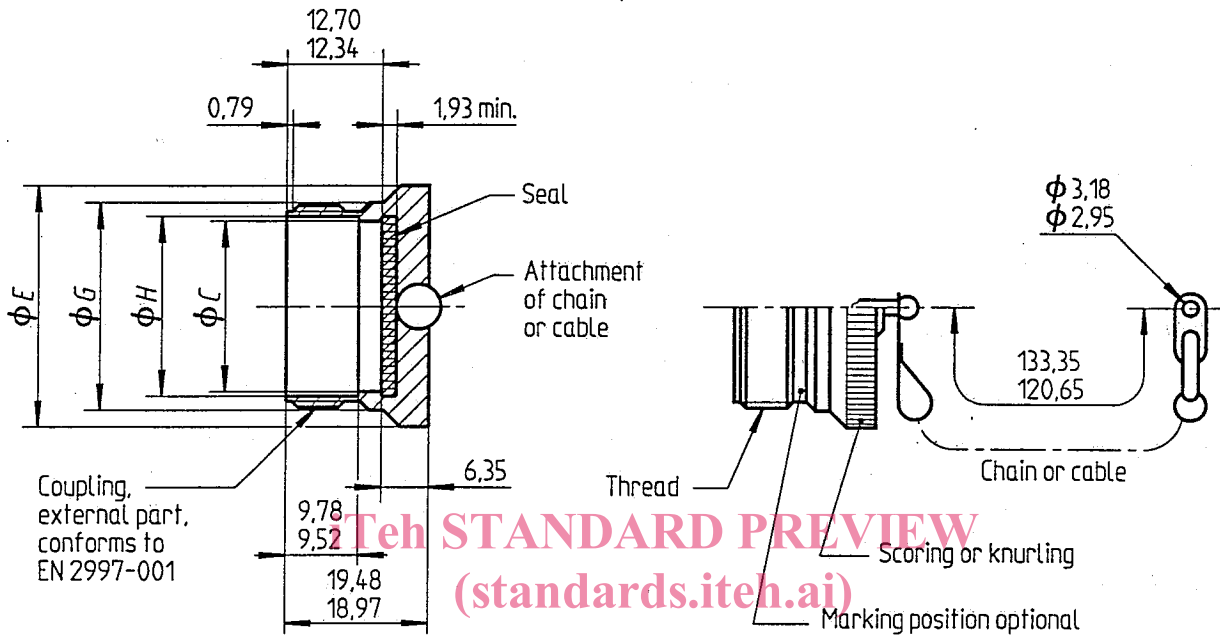
2) Published by : Department of Defense (DOD), the Pentagon, Washington, D.C. 20301 USA

4 Required characteristics

4.1 Dimensions, mass

See figure 1 and table 1.

Dimensions are in millimeters ; they apply after surface treatment.



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Figure 1

Table 1

Housing size	Thread class 2A 1)	C + 0,13 0	E max.	G max.	H + 0,13 0	Mass g max.	
						Stainless steel	Aluminium alloy
08	0,5625-24UNEF	10,49	19,46	14,27	12,07	34,4	12,3
10	0,6875-24UNEF	13,46	23,01	17,67	14,63	47,2	16,9
12	0,8750-20UNEF	17,78	27,38	22,22	18,95	63,2	22,6
14	0,9375-20UNEF	19,53	28,98	23,77	20,70	68,5	24,5
16	1,0625-16UNEF	22,76	32,16	26,97	23,93	81,4	29,2
18	1,1875-18UNEF	25,45	34,93	30,15	26,62	93,0	33,3
20	1,3125-16UNEF	28,63	38,35	33,32	29,74	108,4	38,9
22	1,4375-18UNEF	31,90	41,28	36,49	32,94	121,7	43,6
24	1,5625-18UNEF	34,98	44,70	39,67	36,07	140,1	50,3
28	1,8125-16UN	41,32	51,30	46,02	42,49	176,1	63,2

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 plugs	K	R	KE	W
Plugs	K or S	R or RS	KE or SE	W or WS

5 Designation

EXAMPLE :

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Description block

Identity block

COVER, ELECTRICAL CONNECTOR EN 2997-10:2001 **EN2997K4C16**

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Number of the basic standard

Model (see table 2)

Protective cover for plug (see EN 2997-002)

Type of termination

- C : with chain
- D : with cable

Housing size (see table 1)

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

Table 3 : Protective cover models

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

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7 Technical specification

See EN 2997-001.