

SLOVENSKI STANDARD

SIST EN 2997-010:2015

01-marec-2015

Nadomešča:

SIST EN 2997-010:2010

Aeronavtika - Konektorji, električni, okrogli, priključeni z navojnim obročkom, odporni ali neodporni proti ognju, s stalno delovno temperaturo med -65 °C in 175 °C , stalno 200 °C , najvišjo 260 °C - 010. del: Zaščitna kapa za vtič - Standard za proizvod

Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak - Part 010: Protective cover for plug - Product standard

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Luft- und Raumfahrt - Elektrische Rundsteckverbinder mit Schraubkupplung, feuerbeständig oder nicht feuerbeständig, Betriebstemperaturen -65 °C bis 175 °C konstant, 200 °C konstant, 260 °C Spitze - Teil 010: Schutzkappe für freien Steckverbinder - Produktnorm

Série aérospatiale - Connecteurs électriques circulaires à accouplement par bague fileté, résistant au feu ou non, températures d'utilisation -65 °C à 175 °C continu, 200 °C continu, 260 °C en pointe - Partie 010 : Bouchon de vol pour fiche - Norme de produit

Ta slovenski standard je istoveten z: EN 2997-010:2014

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems
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en,fr,de

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EUROPEAN STANDARD

EN 2997-010

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 49.060

Supersedes EN 2997-010:2010

English Version

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This European Standard was approved by CEN on 5 December 2014.

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 CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists 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 CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents		Page
Foreword.....		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Required characteristics	5
5	Designation	7
6	Marking	8
7	Technical specification	8

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Foreword

This document (EN 2997-010:2014) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries 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 ASD, 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 June 2015, and conflicting national standards shall be withdrawn at the latest by June 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 2997-010:2010.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 2997-010:2014 (E)

1 Scope

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

It applies to the class defined in Table 2.

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

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2997-001, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 001: Technical specification*

EN 2997-002, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 002: Specification of performance and contact arrangements*

EN 2997-008, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 008: Plug — Product standard*

ISO 263, *ISO inch screw threads — General plan and selection for screws, bolts and nuts — Diameter range 0,06 to 6 in*

3 Terms and definitions

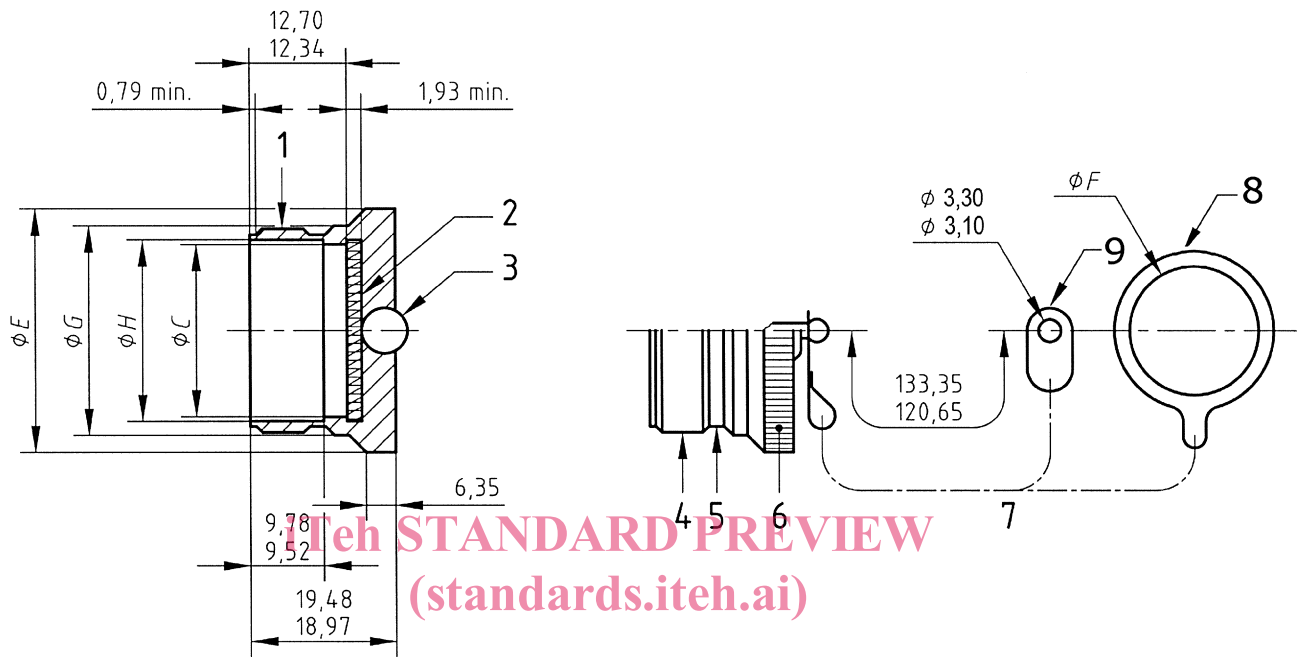
For the purposes of this standard, the terms and definitions given in EN 2997-001 apply.

4 Required characteristics

4.1 Dimensions and mass

See Figure 1 and Table 1.

Dimensions are in millimetres; they apply after surface treatment.



Key

- 1 Coupling, external part, conforms to EN 2997-001
- 2 Seal – Shall be bonded or mechanically retained in protective cover
- 3 Fastener/rivet for chain or rope
- 4 Thread
- 5 Marking position optional
- 6 Scoring or knurling
- 7 Attachment type, see Table 3
- 8 Ring
- 9 Eyelet

Figure 1 — Protective cover for plug

EN 2997-010:2014 (E)

Table 1 — Protective cover for plug dimensions

Housing size	Thread class 2A ^a	$\varnothing C$ + 0,13 0	$\varnothing E$ max.	$\varnothing F$ $\pm 0,38$ Ring inner	$\varnothing G$ max.	$\varnothing H$ + 0,13 0	Mass g max.	
							Stainless steel	Aluminium alloy
08	0,5625-24UNEF	10,49	19,46	14,80	14,27	12,07	34,4	12,3
10	0,6875-24UNEF	13,46	23,01	16,30	17,67	14,63	47,2	16,9
12	0,8750-20UNEF	17,78	27,38	19,50	22,22	18,95	63,2	22,6
14	0,9375-20UNEF	19,53	28,98	22,80	23,77	20,70	68,5	24,5
16	1,0625-18UNEF	22,76	32,16	25,80	26,97	23,93	81,4	29,2
18	1,1875-18UNEF	25,45	34,93	29,00	30,15	26,62	93,0	33,3
20	1,3125-18UNEF	28,63	38,35	30,60	33,32	29,74	108,4	38,9
22	1,4375-18UNEF	31,80	41,28	35,30	36,49	32,94	121,7	43,6
24	1,5625-18UNEF	34,98	44,70	36,50	39,67	36,07	140,1	50,3
28	1,8125-16UNS	41,32	51,30	44,90	46,02	42,49	176,1	63,2

^a ISO 263.

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4.2 Material, surface treatment

See Table 2 and below.

Protective cover shell – See Table 2. <http://standards.iteh.ai/catalog/standards/sist/308ce43b-49ae-4207-9fc5-643c96152f3a/sist-en-2997-010-2015>

Chain or rope – Stainless steel

- Rope shall be insulated, insulation shall withstand 260 °C environment;
- Chain or rope shall rotate freely on the fastener.

Fastener – Stainless steel.

Ring and eyelet – Stainless steel.

4.3 Main general characteristics

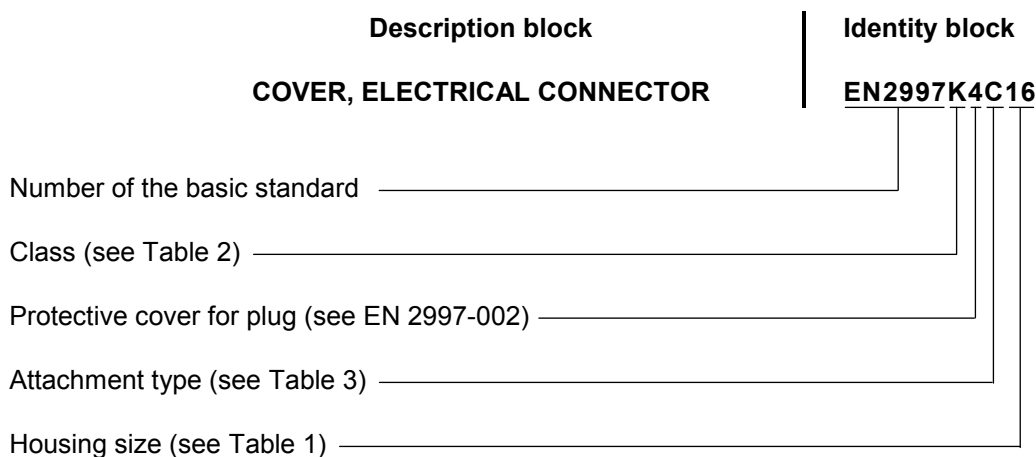
See EN 2997-002.

4.4 Possible combinations of protective covers and connectors

See EN 2997-002.

5 Designation

EXAMPLE



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

Table 2 — Class and model protective cover

Class	Model description
K	Protective cover for plug in passivated stainless steel, 500 h resistance to salt mist, maximum operating temperature 200 °C continuous
R	Protective cover for plug in nickel-plated aluminium alloy, 48 h resistance to salt mist, maximum operating temperature 200 °C continuous
W	Protective cover for plug in olive-green cadmium-plated aluminium alloy, 500 h resistance to salt mist, maximum operating temperature 175 °C continuous
KE	Protective cover for plug in passivated stainless steel, 500 h resistance to salt mist, maximum operating temperature 260 °C peak

Table 3 — Type of attachment

Attachment type	Description
C	Stainless steel chain and eyelet
D	Stainless steel rope with high temperature jacket material and eyelet
N	Without chain or rope with holes for locking wire
J	Stainless steel chain and ring
L	Stainless steel rope with high temperature jacket material and ring