SLOVENSKI STANDARD
SIST EN 3646-004:2009

01-maj-2009

Aeronavtika - Konektorji, elektriļ ni, okrogli, bajonetno sklapljanje, stalna delovna temperatura 175 ÁC ali 200 ÁC - 004. del: Podloga, pritrjena z matico - Standard za proizvod

Aerospace series - Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous - Part 004: Receptacle, jam-nut mounting - Product standard

Luft- und Raumfahrt - Elektrische Rundsteckverbinder mit Bajonettkupplung, Betriebstemperatur 175 °C oder 200 °C konstant - Teil 004: Fester Steckverbinder mit Mutternbefestigung - Produktnorm

Série aérospatiale - Connecteurs électriques circulaires à accouplement par baïonnettes, température d'utilisation 175 °C ou 200 °C continu - Partie 004 : Embase à fixation par écrou - Norme de produit

Ta slovenski standard je istoveten z: **EN 3646-004:2006**

ICS:

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

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EUROPEAN STANDARD

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English Version

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This European Standard was approved by CEN on 3 February 2006.

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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 Central Secretariat has the same status as the official versions.

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Foreword

This European Standard (EN 3646-004:2006) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 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of an identical text or by endorsement, at the latest by November 2006, and conflicting national standards shall be withdrawn at the latest by November 2006.

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.

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

1 Scope

This standard defines the characteristics of the jam-nut mounted receptacles of the family of bayonet coupling circular connectors, intended for use in an operating temperature range of – 65 °C to 175 °C or 200 °C continuous.

It applies to models defined in Table 4.

For contact, filler plugs and rear accessories associated with this receptacle see EN 3646-002. For plugs and protective covers see EN 3646-008 and EN 3646-009 respectively.

2 Normative references

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

ISO 3161, *Aerospace — UNJ threads — General requirements and limit dimensions.*

EN 3155-002, *Aerospace series — Electrical contacts used in elements of connection — Part 002: List and utilization of contacts.*

EN 3646-001, *Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous — Part 001: Technical specification.* [1)]

EN 3646-002, *Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous — Part 002: Specification of performance and contact arrangements.*

EN 3646-008, *Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous — Part 008: Plug — Product standard.*

EN 3646-009, *Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous — Part 009: Protective cover for receptacle — Product standard.*

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 3646-001 apply.

4 Required characteristics

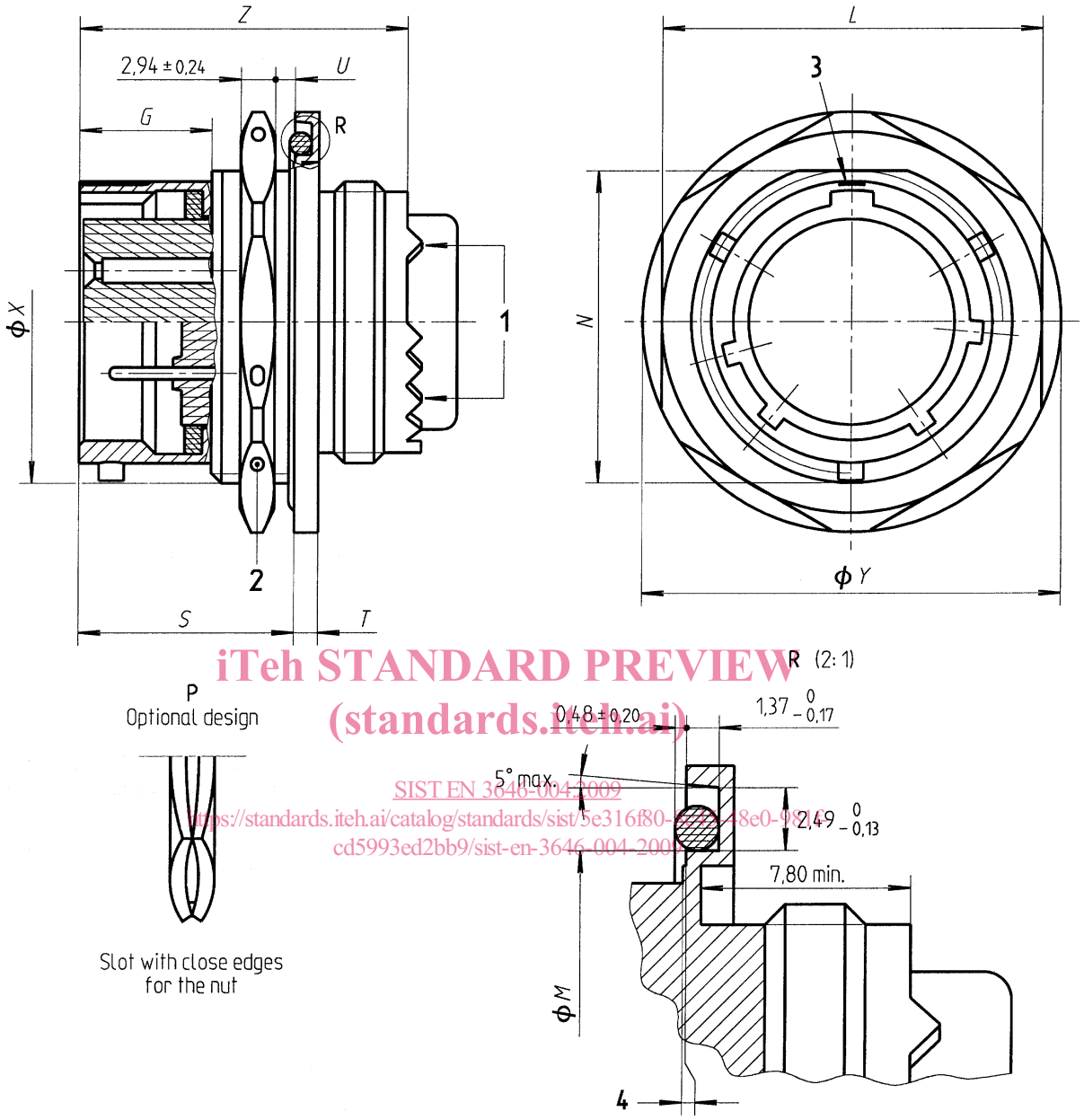
4.1 Dimensions and mass

See Figure 1 and Table 1.

Dimensions and tolerances are in millimetres, they apply after surface treatment.

Interface mating and rear dimensions, see EN 3646-001.

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



Key

1 According to variant
2 Three equally spaced holes diameter 1 min. for locking wire (see option detail P)
3 Polarizing strip optional colour
4 0,13 max. to end of the flat

Figure 1 — Jam-nut mounted receptacle

Table 1

Housing size	*L* max.	*M* min.	*N* 0 – 0,25	*S* max.	*T*	*U*	*X* Thread [a] UNJEF-2A	*Y* max.	*Z* max.	Mass [b] g max.
08	19,48	15,34	13,45	17,95	2,87 1,90	4,75 1,57	0,5625-24	23,30	25,90	6
10	22,66	18,52	16,64				0,6875-24	26,60		8
12	27,41	23,25	20,78				0,8750-20	31,35		11
14	30,61	26,45	23,93				1,0000-20	34,65		16
16	33,76	29,62	27,08				1,1250-18	37,70		21
18	36,96	32,80	30,25				1,2500-18	40,90		23
20	40,11	37,55	33,43	19,61	3,76 1,90	6,35	1,3750-18	45,65	27,50	29
22	43,31	40,75	36,60			1,57	1,5000-18	48,85		38
24	46,46	43,92	39,78	20,40		5,56 1,57	1,6250-18	52,00		42

[a] ISO 3161

[b] Mass without accessory and without contacts

4.2 Tightening torque of attachment nut

See Table 2.

Table 2

Housing size	Torque N.m ± 10 %
08	7
10	10
12	12
14	15
16	18
18	22
20	25
22	27
24	29

4.3 Panel cut-out

Recommended panel cut-out dimensions: see Figure 2 and Table 3.

Dimensions and tolerances are in millimetres.

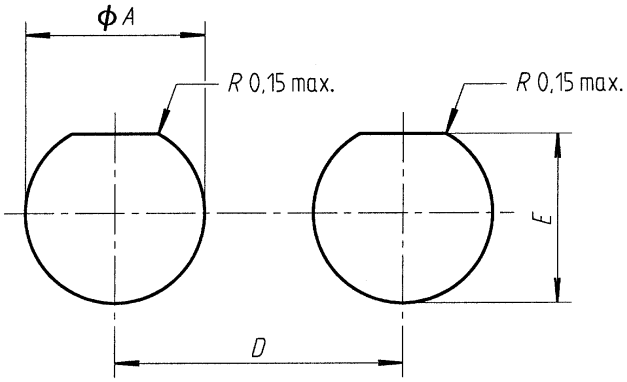


Figure 2

Table 3

Housing size	*A* +0,25 0	*D* min.	*E* +0,25 0
08	14,40	32	13,48
10	17,58	35	16,66
12	22,60	38	20,80
14	25,52	41	23,95
16	28,70	45	27,10
18	31,87	47	30,27
20	35,05	51	33,45
22	38,22	53	36,62
24	41,40	57	39,80

4.4 Material and surface treatment

See Table 4.

4.5 Main general characteristics

See EN 3646-002.

4.6 Possible combinations of plugs and receptacles

See EN 3646-002.