



SLOVENSKI STANDARD SIST EN 3646-006:2009

01-junij-2009

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Aerospace series - Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous - Part 006: Receptacle, hermetic, jam-nut mounting - Product standard

STANDARD PREVIEW

Luft- und Raumfahrt - Elektrische Rundsteckverbinder mit Bajonettkupplung, Betriebstemperatur 175 °C oder 200 °C konstant - Teil 006: Hermetischer fester Steckverbinder mit Mutterbefestigung - Produktnorm

[SIST EN 3646-006:2009](https://standards.itih.ai/)

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Série aérospatiale - Connecteurs électriques circulaires à accouplement par baïonnettes, température d'utilisation 175 °C ou 200 °C continu - Partie 006 : Embase hermétique à fixation par écrou - Norme de produit

Ta slovenski standard je istoveten z: EN 3646-006:2006

ICS:

49.060 Š^cp \ æš Ą^• [|b \ æ Aerospace electric
^|\ dā } æ] !^ { æš Ą ã c { ã equipment and systems

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en,de

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EUROPEAN STANDARD

EN 3646-006

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2006

ICS 49.060

English Version

Aerospace series - Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous - Part 006: Receptacle, hermetic, jam-nut mounting - Product standard

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

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.

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.

[SIST EN 3646-006:2009](http://standards.iteh.ai/SIST/EN/3646-006/2009)

CEN members are the national standards bodies of 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 United Kingdom.



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

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Foreword

This European Standard (EN 3646-006:2006) 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.

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EN 3646-006:2006 (E)**1 Scope**

This standard defines the characteristics of hermetic jam-nut mounted receptacles in 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 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 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.*

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3 Terms and definitions

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

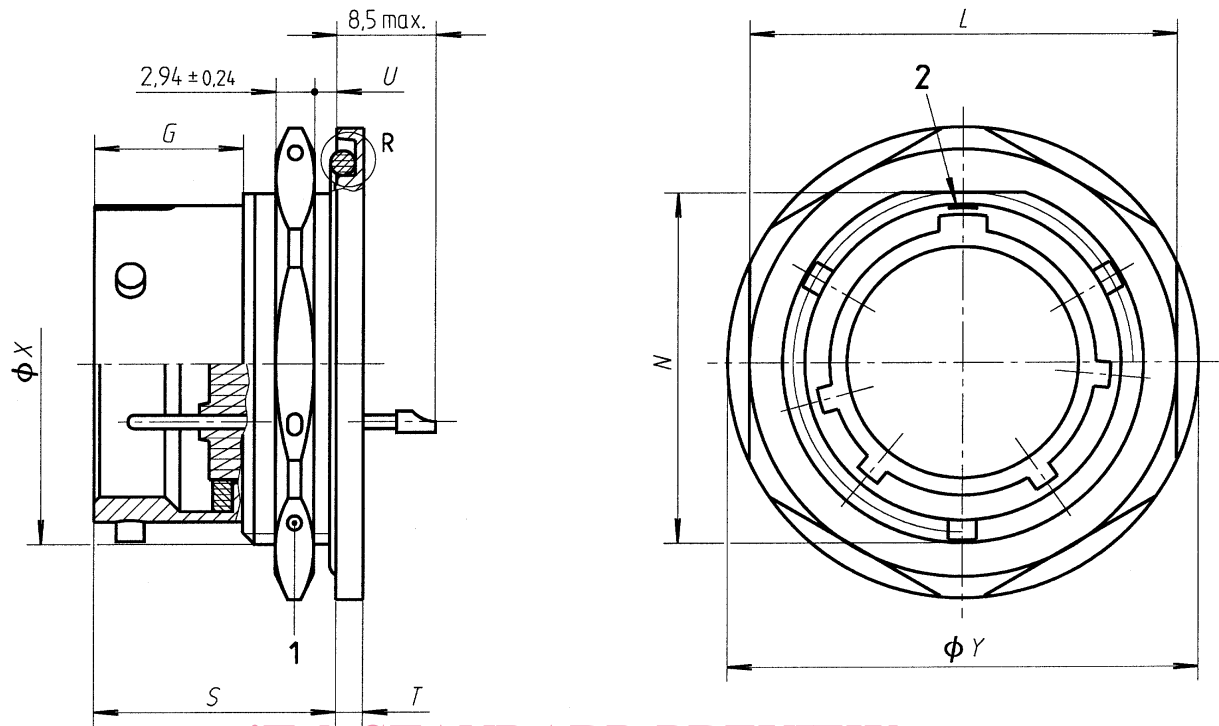
4 Required characteristics**4.1 Dimensions and mass**

See Figure 1 and Table 1.

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

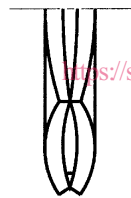
Interface mating dimensions, see EN 3646-001.

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



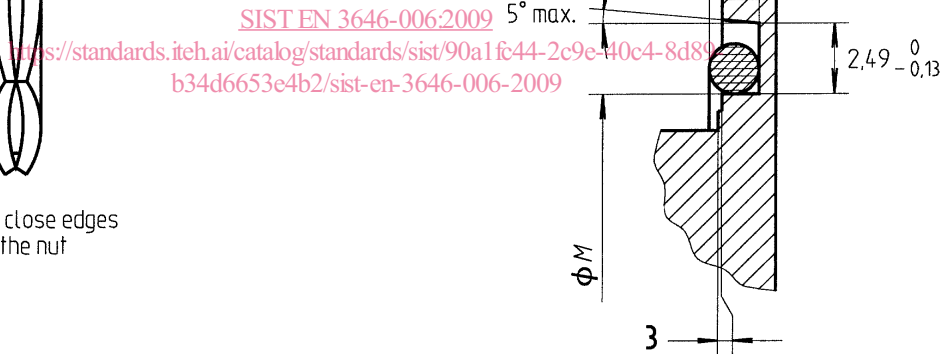
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P
Optional design



Slot with close edges
for the nut

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Key

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

Figure 1 — Hermetic jam-nut mounted receptacle

Table 1 — Round flange receptacle with nut fitting

Housing size	<i>L</i>	<i>M</i>	<i>N</i>	<i>S</i>	<i>T</i>	<i>U</i>	<i>X</i>	<i>Y</i>	Mass g max.
	max.	min.	$\begin{matrix} 0 \\ -0,25 \end{matrix}$	max.	$\pm 0,5$		Thread ^a UNJEF-2A	max.	
08	19,48	15,34	13,45	18,34	2,40	4,75 1,57	0,5625-24	23,30	20
10	22,66	18,52	16,64				0,6875-24	26,60	26
12	27,41	23,25	20,78				0,8750-20	31,35	35
14	30,61	26,45	23,93				1,0000-20	34,65	46
16	33,76	29,62	27,08				1,1250-18	37,70	51
18	36,96	32,80	30,25				1,2500-18	40,90	63
20	40,11	37,55	33,43	23,12	3,20	6,35	1,3750-18	45,65	86
22	43,31	40,75	36,60			1,57	1,5000-18	48,85	100
24	46,46	43,92	39,78	23,95		5,56 1,57	1,6250-18	52,00	108

^a ISO 3161

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4.2 Tightening torque of attachment nut

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See Table 2.

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Table 2

Housing size	Torque N.m $\pm 10\%$
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.

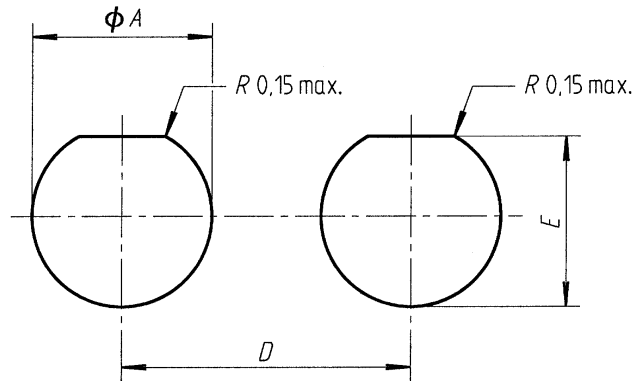


Figure 2

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.