

SLOVENSKI STANDARD

SIST EN 3646-005:2017

01-maj-2017

Nadomešča:

SIST EN 3646-005:2009

Aeronavtika - Konektorji, električni, okrogli, bajonetno sklapljanje, stalna delovna temperatura 175 °C ali 200 °C - 005. del: Spojnik, hermetičen, s kvadratno montažno prirobnico - Standard za proizvod

Aerospace series - Connectors, electrical, circular, bayonet coupling, operating temperature 175 °C or 200 °C continuous - Part 005: Receptacle, hermetic, square flange mounting - Product standard

Luft- und Raumfahrt - Elektrische Rundsteckverbinder mit Bajonettkupplung, Betriebstemperatur 175 °C oder 200 °C konstant - Teil 005: Hermetischer fester Steckverbinder mit quadratischem Montageflansch - Produktnorm

Série aérospatiale - Connecteurs électriques circulaires à accouplement par baïonnettes, température d'utilisation 175 °C ou 200 °C continu - Partie 005: Embase hermétique à fixation par collerette carrée - Norme de produit

Ta slovenski standard je istoveten z: EN 3646-005:2017

ICS:

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

SIST EN 3646-005:2017

en,fr,de

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EUROPEAN STANDARD

EN 3646-005

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2017

ICS 49.060

Supersedes EN 3646-005:2006

English Version

**Aerospace series - Connectors, electrical, circular, bayonet
coupling, operating temperature 175 °C or 200 °C
continuous - Part 005: Receptacle, hermetic, square flange
mounting - Product standard**

Série aérospatiale - Connecteurs électriques circulaires
à accouplement par baïonnettes, température
d'utilisation 175 °C ou 200 °C continu - Partie 005:
Embase hermétique à fixation par collerette carrée -
Norme de produit

Luft- und Raumfahrt - Elektrische Rundsteckverbinder
mit Bajonettkupplung, Betriebstemperatur 175 °C oder
200 °C konstant - Teil 005: Hermetischer fester
Steckverbinder mit quadratischem Montageflansch -
Produktnorm

This European Standard was approved by CEN on 26 October 2016.

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.

CEN members are the national standards bodies of 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

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

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European foreword

This document (EN 3646-005:2017) 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 European 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 September 2017, and conflicting national standards shall be withdrawn at the latest by September 2017.

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 3646-005:2006.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 3646-005:2017 (E)**1 Scope**

This European Standard defines the characteristics of hermetic square flange 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 3.

For plugs and protective covers see EN 3646-008 and EN 3646-009 respectively.

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

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

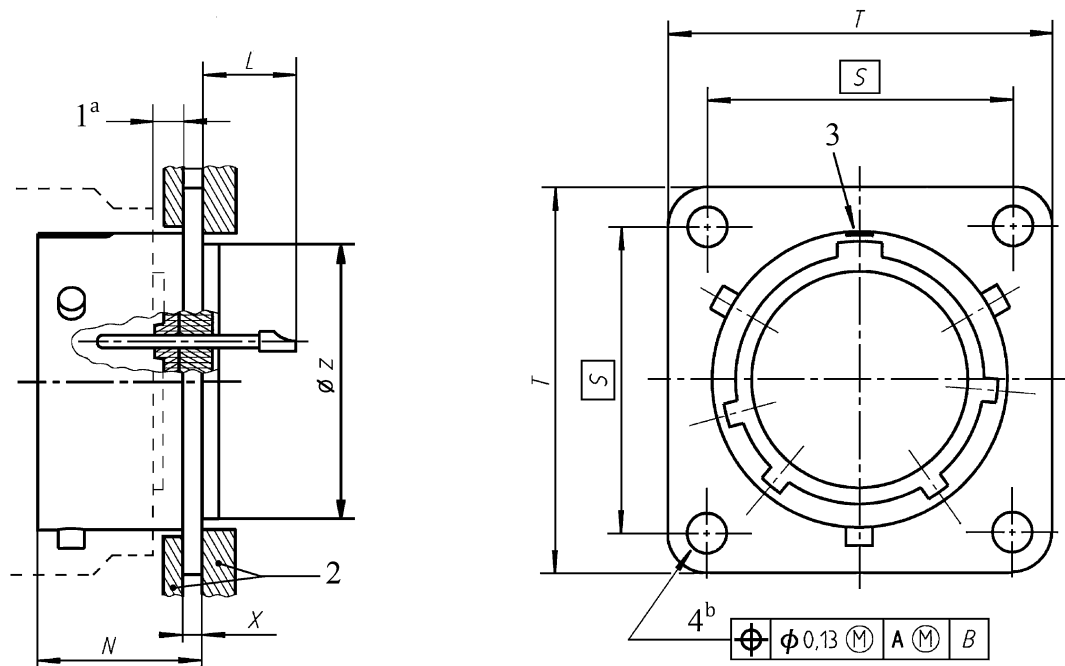
For the purposes of this document, the terms and definitions given in EN 3646-001 apply.

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.



Key

- 1 2,21 shells 08 to 18
5,38 shells 20 to 24
- 2 Panel
- 3 Polarizing strip optional colour
- 4 Four holes diameter M

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- a Maximum thickness of the support and the fixing screw heads for mounting the connector from the rear of the panel
- b See EN 3646-001, Figure 1 and Figure 3, for references A and B.

Figure 1

Table 1

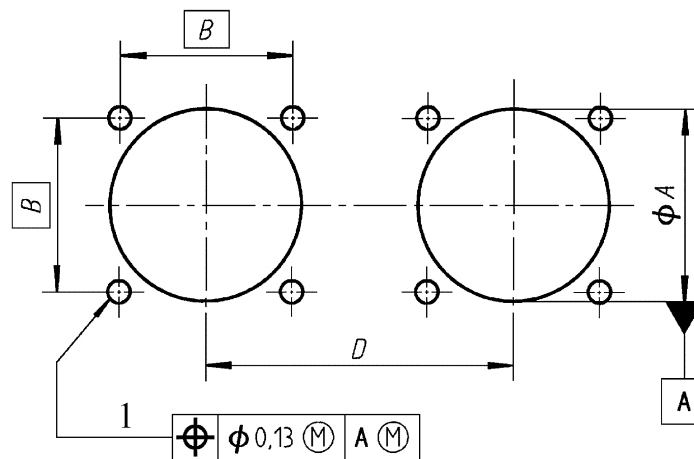
Housing size	L max.	M $\pm 0,15$	N $\pm 0,55$	S	T max.	X	Z 0 -0,30	Mass g max.
08	8,40	3,15	12,65	15,10	21,03	$1,63 \pm 0,86$	14,30	12
10				18,26	24,23		17,10	15
12				20,62	26,59		19,90	20
14				23,01	28,98		23,05	24
16				24,61	31,34		26,25	30
18				26,97	33,73		29,40	36
20	9,60	3,73	14,25	29,36	36,91	$1,93 \pm 0,58$	31,80	43
22				31,75	40,10		35,00	52
24				34,92	43,27		38,20	60

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4.2 Panel cut-out

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

Dimensions and tolerances are in millimetres.



Key

1 Four holes diameter C

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Table 2

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Housing size	A +0,25 0	B	C ± 0,15	D min.
08	14,40	15,10	3,15	32
10	17,59	18,26		35
12	22,60	20,62		38
14	25,52	23,01		41
16	28,70	24,61		45
18	31,87	26,97		47
20	35,05	29,36		51
22	38,22	31,75		53
24	41,40	34,92	3,73	57

4.3 Material and surface treatment

See Table 3.

4.4 Main general characteristics

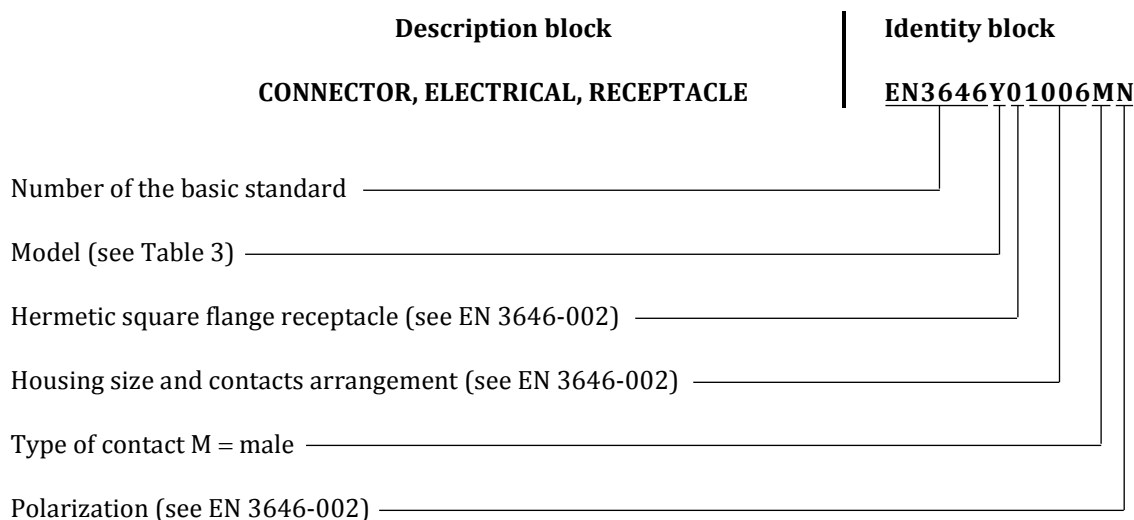
See EN 3646-002.

4.5 Possible combinations of plugs and receptacles

See EN 3646-002.

5 Designation

EXAMPLE



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

Table 3 — Connectors models

Model	Description
Y	Hermetic receptacle with housing (shell) in passivated stainless steel, solder contacts - Maximum operating temperature 200 °C continuous

6 Marking

Unless there are other specific contractual requirements, the marking shall include.

6.1 Marking on the product

- the manufacturer's part number corresponding to the identity block as defined in Clause 5;
- the date of manufacture (year, week);
- the manufacturer's name or trade mark.