



# SLOVENSKI STANDARD SIST EN 3710:2008

01-julij-2008

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## Aeronavtika - Obojke, biheksagonalne - Tehnična specifikacija

Aerospace series - Sockets, bi-hexagonal - Technical Specification

Luft- und Raumfahrt - Steckschlüsseleinsätze, Doppelsechskant - Technische Lieferbedingungen

Série aérospatiale - Douille bihexagonale - Spécification technique

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**Ta slovenski standard je istoveten z: EN 3710:2008**

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### **ICS:**

49.030.99      Drugi vezni elementi      Other fasteners

**SIST EN 3710:2008**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 3710**

April 2008

ICS 25.140.30

English Version

## Aerospace series - Sockets, bi-hexagonal - Technical Specification

Série aéronautique - Douille bihexagonale - Spécification technique

Luft- und Raumfahrt - Steckschlüsseinsätze, Doppelsechskant - Technische Lieferbedingungen

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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 CEN Management Centre has the same status as the official versions.

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## Foreword

This document (EN 3710:2008) 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of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

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, Bulgaria, 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 3710:2008 (E)****1 Scope**

This standard specifies the properties of double-hex sockets for aerospace use.

**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 691, *Assembly tools for screws and nuts — Wrench and socket openings — Tolerances for general use*

ISO 1174-1, *Assembly tools for screw and nuts — Driving squares — Part 1: Driving squares for hand socket tools*

ISO 1174-2, *Assembly tools for screws and nuts — Driving squares — Part 2: Driving squares for power socket tools*

EN 2424, *Aerospace series — Marking of aerospace products*<sup>1)</sup>

EN 3709, *Aerospace series — Wrenches and sockets, bi-hexagonal — Technical specification*

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**3 Required characteristics****3.1 Configuration, dimensions, tolerances**

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— See Figure 1 and Table 1; <https://standards.iteh.ai/catalog/standards/sist/474ea982-a88c-40f7-a20d-4aa7613205e4/sist-en-3710-2008>

— tolerances for opening socket according to ISO 691;

— specification driving square according to ISO 1174-1 and ISO 1174-2.

**3.2 Material**

The material quality is left at the manufacturer's option.

**3.3 Hardness**

The hardness test shall be performed in compliance with the requirements given in EN 3709.

The hardness required for square drive sockets is as follows:  $42 \leq \text{HRC} \leq 54$ .

**3.4 Surface treatment**

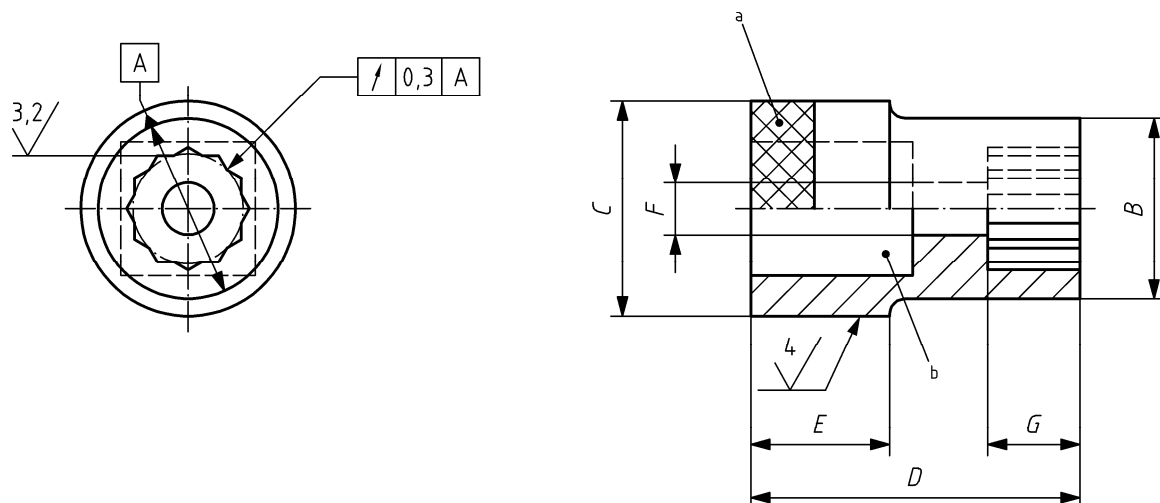
Nickel chromium deposit

— Nickel thickness 5  $\mu\text{m}$  min.

— Chromium thickness 0,25  $\mu\text{m}$  min.

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<sup>1)</sup> Published as AECMA prestandard at the date of publication of this standard.



- a Knurling in this zone  
b Marking in this zone

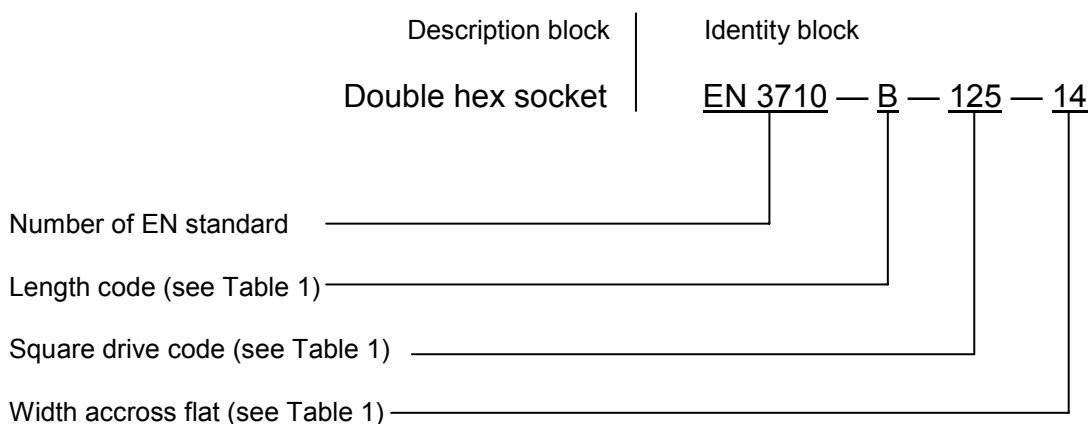
Figure 1

Table 1

Square drive		Width across flat	Length code							
dim. mm	code		standard A				length B		F	G
		B mm max.	C mm max.	D mm max.	E mm max.	D mm min.	E mm max.	F mm min.	G mm min.	
6,35 (1/4 inch)	0,63	5	∅ 8	∅ 11,2	25	13	45	13	∅ 4	4,5
		6	∅ 9,5	∅ 11,2	25	13	45	13	∅ 5	5,4
		7	∅ 11	∅ 12	25	13	45	13	∅ 6	5,6
		8	∅ 12,2	∅ 12	25	13	45	13	∅ 7	6,2
		9	∅ 13,5	∅ 14	25	13	45	13	∅ 8	6,8
10 (3/8 inch)	100	7	∅ 11	∅ 17,5	32	16,5	45	16,5	∅ 6	5,6
		8	∅ 12,2	∅ 17,5	32	16,5	45	16,5	∅ 7	6,2
		9	∅ 13,5	∅ 17,5	32	16,5	45	16,5	∅ 8	6,8
		10	∅ 14,7	∅ 17,5	32	16,5	45	16,5	∅ 8,5	7,5
		11	∅ 16	∅ 17,5	32	16,5	45	16,5	∅ 9,5	8
		12	∅ 17,2	∅ 17,5	32	16,5	45	16,5	∅ 11	9
		13	∅ 18,5	∅ 22,5	32	16,5	45	16,5	∅ 12	9,5
12,5 (1/2 inch)	125	10	∅ 14,7	∅ 24	40	21	75	21	∅ 8,5	7,5
		11	∅ 16	∅ 24	40	21	75	21	∅ 9,5	8
		12	∅ 17,2	∅ 24	40	21	75	21	∅ 11	9
		13	∅ 18,5	∅ 24	40	21	75	21	∅ 12	9,5
		14	∅ 20,5	∅ 24	40	21	75	21	∅ 13	9,8
		15	∅ 21,7	∅ 24	40	21	75	21	∅ 14	12
		16	∅ 23	∅ 25	40	21	75	21	∅ 15	12
		17	∅ 24,2	∅ 25	40	21	75	21	∅ 15,2	12,5
		18	∅ 25,5	∅ 27	42	21	75	21	∅ 17	13,5
19	∅ 26,7	∅ 27	42	21	75	21	∅ 17,5	14		

**EN 3710:2008 (E)****4 Designation**

EXAMPLE



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

**5 Marking**

EN 2424, Style C, as indicated in Figure 1, additionally with the width across flat.

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**6 Technical specification (standards.iteh.ai)**

According to EN 3709.

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