



# SLOVENSKI STANDARD SIST EN 4531-004:2009

01-julij-2009

5 YfcbUj h\_U! ?cbY\_lcf jžcdh b]žc\_fc[ `]žn`Yb]a `U]`j Y `nUj jždf]\_`f Yb]n  
bUj c`b]a `cVfc \_ca `!`nfUj bUb]\_cbU\_h]!`\$\$("XY.`Df]fX]h]j `n`nU\_`Ydca `a UjW`!  
GhUxUfX`nUdfc]nj cX

Aerospace series - Connectors, optical, circular, single and multipin, coupled by threaded ring - Flush contacts - Part 004: Jam nut receptacle - Product standard

Luft- und Raumfahrt - Optische Rundsteckverbinder mit Schraubkupplung - Bündige Kontakte - Teil 004: Fester Steckverbinder mit Mutterbefestigung - Produktnorm  
(standards.iteh.ai)

Série aérospatiale - Connecteurs optiques circulaires à accouplement par bague fileté - Contacts affleurants - Partie 004 : Embase à collerette ronde à fixation par écrou - Norme produit  
78037ac138eb/sist-en-4531-004-2009

Ta slovenski standard je istoveten z: EN 4531-004:2007

**ICS:**

49.060 Š`c\`æ`Á`^•[|b\`æ Aerospace electric  
^|\`dã}æ]!^{\`æ`Á`ã`c{`ã equipment and systems

**SIST EN 4531-004:2009**

**en,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 4531-004**

June 2007

ICS 49.060

English Version

**Aerospace series - Connectors, optical, circular, single and  
multipin, coupled by threaded ring - Flush contacts - Part 004:  
Jam nut receptacle - Product standard**

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Luft- und Raumfahrt - Optische Rundsteckverbinder mit  
Schraubkupplung - Bündige Kontakte - Teil 004: Fester  
Steckverbinder mit runden Schweiß und  
Mutterbefestigung - Produktnorm

This European Standard was approved by CEN on 28 April 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 CEN 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



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

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

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## Foreword

This document (EN 4531-004:2007) 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 December 2007, and conflicting national standards shall be withdrawn at the latest by December 2007.

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 4531-004:2007 (E)****1 Scope**

This standard specifies the characteristics of mounted jam nut receptacles in the family of circular connectors with triple start threaded coupling.

**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.

EN 2424, *Aerospace series — Marking of aerospace products.*

EN 4531-001, *Aerospace series — Connectors, optical, circular, single and multipin, coupled by threaded ring — Flush contacts — Part 001: Technical specification.*

EN 4531-002, *Aerospace series — Connectors, optical, circular, single and multipin, coupled by threaded ring — Flush contacts — Part 002: Specification of performance and contact arrangements.*

**3 Terms and definitions**

For the purposes of this European Standard, the terms and definitions given in EN 4531-001 apply.

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## 4 Required characteristics

### 4.1 Dimensions and masses

See Figure 1 and Table 1. Dimensions and tolerances are in millimetres.

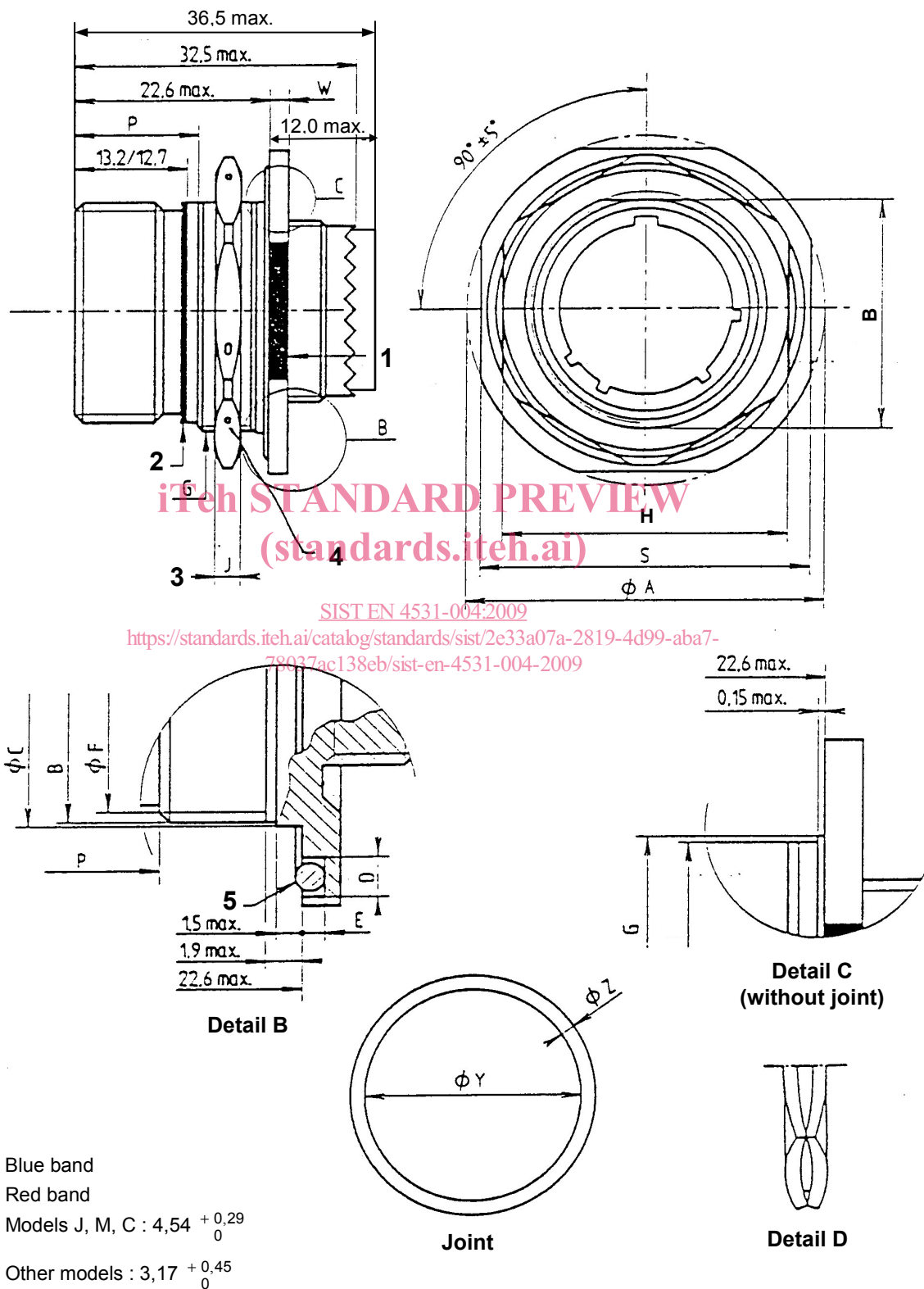


Figure 1

## EN 4531-004:2007 (E)

Table 1

Shell size	<i>A</i>	<i>B</i>	<i>C</i> <sup>a</sup>	<i>D</i>	<i>E</i>	<i>F</i> <sup>b</sup>	<i>G</i>	<i>H</i>	<i>P</i>	<i>S</i>	<i>W</i>	<i>Y</i>	<i>Z</i>	Mass (g) Class			
	± 0,3	+ 0,10 - 0,15	+ 0,10 - 0,20	+ 0,13 - 0,03	± 0,13	max.	Thread		+ 0,4 - 0,10	± 0,4	+ 0,7 - 0,10			F, W, O	K, S	J, M, C	B
09	30,2	16,53	17,40	2,39	1,14	15,9	M17×1 6g 0,1 R	24,00 21,82	14,3	27,0	2,2	20,50 20,19	1,85 1,70	16	38	15	67
11	34,9	19,07	20,60			18,8	M20×1 6g 0,1 R	27,00 24,99		31,8		25,27 24,97		23	49	19	86
13	38,1	23,82	25,40			23,8	M25×1 6g 0,1 R	32,00 29,77		34,9		28,45 28,14		31	67	27	116
17	44,5	30,15	31,85			30,8	M32×1 6g 0,1 R <sup>c</sup>	37,00 36,12		41,3		34,80 34,49		55	108	48	186
19	49,2	33,32	34,90	3,58	1,91	33,8	M35×1 6g 0,1 R	41,00 39,25		46,0	3,0	37,92 37,62	2,69 2,54	59	127	58	225
21	52,4	36,50	37,90			36,8	M38×1 6g 0,1 R	46,00 42,47		49,2		41,20 40,69		81	148	67	260
25	58,7	42,85	44,4			42,8	M44×1 6g 0,1 R	55,00 53,54		55,6		47,55 47,04		111	190	102	329

<sup>a</sup> The dimensions *C* and 1,5 mm must be compatible with the panel cut-out.

<sup>b</sup> The diameter *F* corresponds to the beginning of the thread.

<sup>c</sup> Diameter modified as follows : 31,95 max.; 31,80 min.

## 4.2 Material and surface treatment

See EN 4531-002.



### 4.3 Panel cut-out

See Figure 2 and Table 2. Dimensions and tolerances are in millimetres.

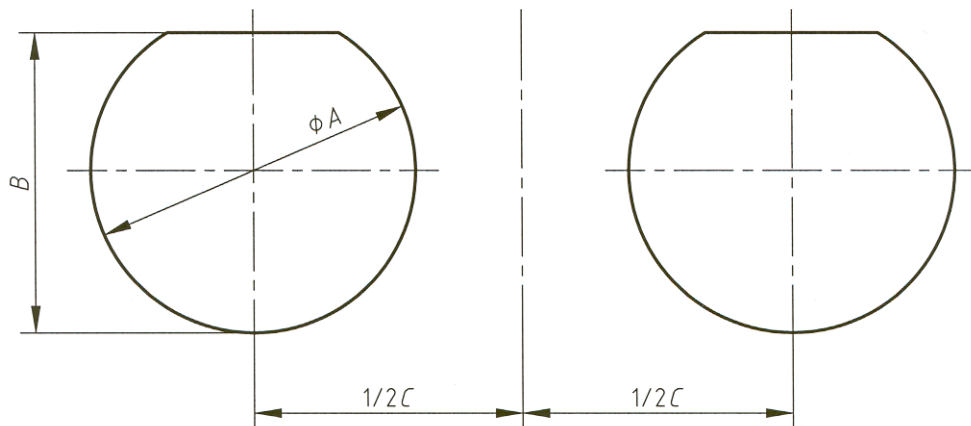


Figure 2

## iTeh STANDARD PREVIEW

Table 2

Shell size	A	B	C
	+0,25	0	min.
	0,25	0,25	
09	17,70	16,99	31,80
11	20,88	19,53	35,00
13	25,58	24,26	39,40
17	31,98	30,68	45,70
19	35,15	33,86	48,50
21	38,28	37,06	51,70
25	44,68	43,41	58,00

### 4.4 Optical, mechanical and climatic characteristics

See EN 4531-002.