



SLOVENSKI STANDARD SIST EN 3645-004:2009

01-maj-2009

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Aerospace series - Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous - Part 004: Receptacle, hermetic, square flange mounting - Product standard

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Luft- und Raumfahrt - Elektrische Rundsteckverbinder, kontaktgeschützt, dreigängige Gewinde-Schnellkupplung, Betriebstemperatur 175 °C oder 200 °C konstant - Teil 004: Hermetischer fester Steckverbinder mit quadratischem Montageflansch - Produktnorm

[SIST EN 3645-004:2009](https://standards.iteh.ai/catalog/standards/sist/4a5884e3-4a78-4995-877b-3645-004-2009)

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Série aérospatiale - Connecteurs électriques circulaires à contacts protégés, à accouplement par filetage à pas rapide à trois filets, températures d'utilisation 175 °C ou 200 °C continu - Partie 004 : Embase hermétique à fixation par collerette carrée - Norme de produit

Ta slovenski standard je istoveten z: EN 3645-004:2006

ICS:

49.060 Š^cē \ æā Ą^• [|b \ æ Aerospace electric
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SIST EN 3645-004:2009 en,de

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EUROPEAN STANDARD

EN 3645-004

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2006

ICS 49.060

English Version

**Aerospace series - Connectors, electrical, circular, scoop-proof,
triple start threaded coupling, operating temperature 175 °C or
200 °C continuous - Part 004: Receptacle, hermetic, square
flange mounting - Product standard**

Série aérospatiale - Connecteurs électriques circulaires à contacts protégés, à accouplement par filetage à pas rapide à trois filets, températures d'utilisation 175 °C ou 200 °C continu - Partie 004 : Embase hermétique à fixation par collerette carrée - Norme de produit

Luft- und Raumfahrt - Elektrische Rundsteckverbinder, kontaktgeschützt, Drei-gangige Gewinde-Schnellkupplung, Dauerbetriebstemperaturen 175 °C oder 200 °C - Teil 004: Hermetischer fester Steckverbinder mit quadratischem Montageflansch - Produktnorm

This European Standard was approved by CEN on 28 September 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.

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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 3645-004:2006) 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 June 2007, and conflicting national standards shall be withdrawn at the latest by June 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, 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 3645-004:2006 (E)**1 Scope**

This standard specifies the characteristics of square flange hermetic receptacles in the family of circular electrical connectors with triple start threaded coupling.

It applies to models in Table 3.

The contacts are unremovable and soldered termination.

For plugs and protective covers, see EN 3645-008, EN 3645-011, EN 3645-012 and EN 3645-006 respectively.

These connectors are derived from and interchangeable with model Y in specification MIL-DTL-38999/21.

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 3645-001, *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 001: Technical specification.*

EN 3645-002, *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 002: Specification of performance and contact arrangements.*

EN 3645-006, *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 006: Protective cover for receptacle — Product standard.*

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EN 3645-008, *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 008: Non release plug with grounding ring — Product standard.*

EN 3645-011, *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 011: Lanyard release plug with grounding fingers — Type 1 — Product standard.*

EN 3645-012, *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 012: Lanyard release plug with grounding fingers — Type 2 — Product standard.*

MIL-DTL-38999/21, *Connectors, electrical, circular, threaded, receptacle, box mounting flange, hermetic, hermetic solder contacts, series III, metric.* ¹⁾

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 3645-001 apply.

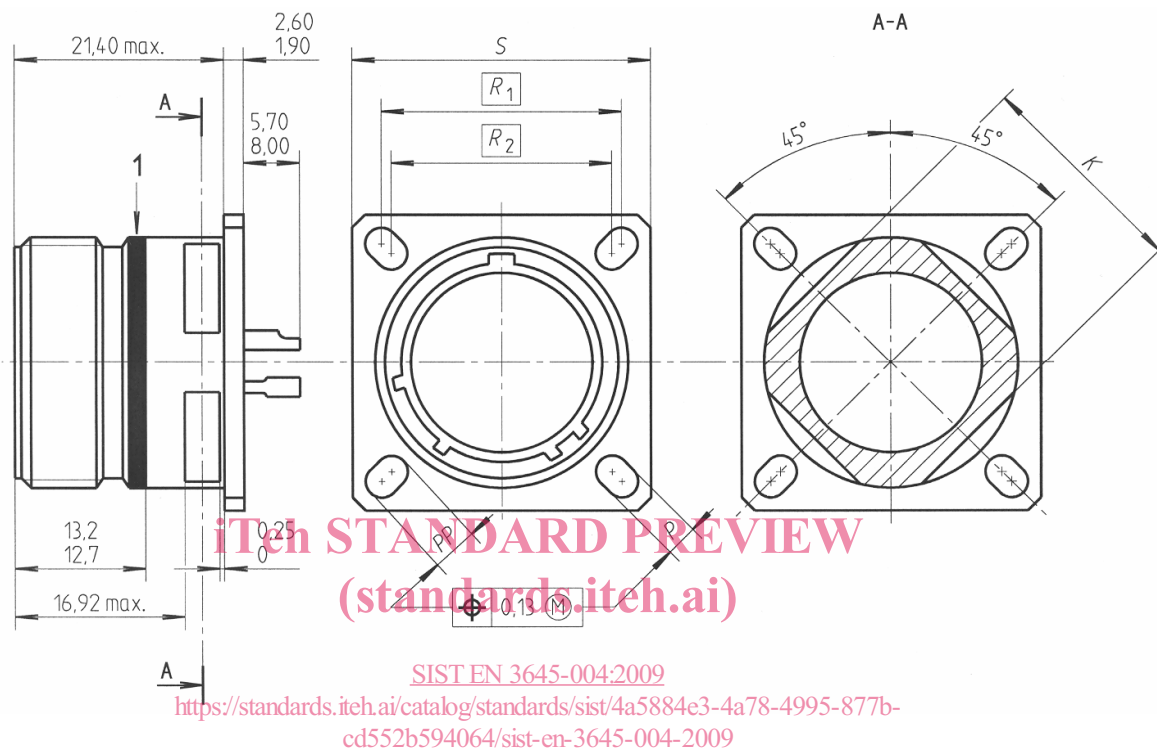
1) Published by: Department of Defense (DOD), The Pentagon, Washington D.C. 20301 USA.

4 Required characteristics

4.1 Dimensions and mass

See Figure 1 and Table 1.

Dimensions and tolerances are in millimetres.



Key

- 1 Red strip

Figure 1 — Square flange receptacle

Table 1 — Square flange receptacle – Dimensions

Shell size	K max.	P $\pm 0,20$	PP $\pm 0,20$	R_1	R_2	S $\pm 0,30$	Stainless steel mass g max.	
09	11,84	3,25	4,93	5,49	18,26	15,09	23,80	21
11	15,01			20,62	18,26	26,20	27	
13	19,08			23,01	20,62	28,60	35	
15	22,25			24,61	23,01	31,00	44	
17	25,43			26,97	24,61	33,30	54	
19	28,60			29,35	26,97	36,50	60	
21	31,78			31,75	29,36	39,70	66	
23	34,95	3,91	6,15	34,93	31,75	42,90	75	
25	38,13			38,10	34,93	46,00	86	

EN 3645-004:2006 (E)

4.2 Materials and surface treatment

See Table 3.

4.3 Recommended panel cut-out

See Figure 2 and Table 2.

Dimensions and tolerances are in millimetres.

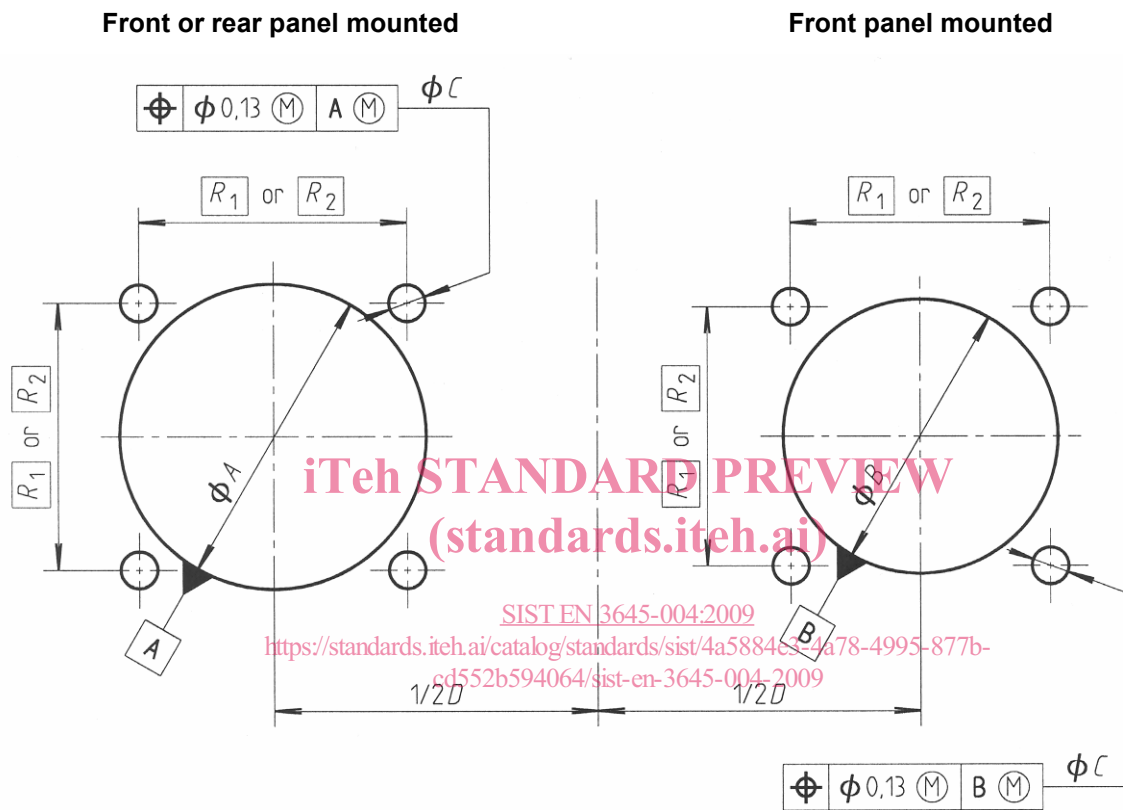


Figure 2 — Panel cut-out

Table 2 — Panel cut-out – Dimensions

Shell size	A min.	B min.	C ± 0,13	D min.	R ₁	R ₂
09	16,66	13,11	3,25	31,80	18,26	15,09
11	20,22	15,88		35,00	20,62	18,26
13	23,42	19,05		39,40	23,01	20,62
15	26,59	23,01		42,50	24,61	23,01
17	30,96	25,81		45,70	26,97	24,61
19	32,94	28,98		48,50	29,36	26,97
21	36,12	32,16	3,91	51,70	31,75	29,36
23	39,29	34,93		54,90	34,93	31,75
25	42,47	37,69		58,00	38,10	34,93

4.4 Electrical, mechanical and climatic characteristics

See EN 3645-002.

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5 Designation

EXAMPLE

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Description block

Identity block

ELECTRICAL CONNECTOR

EN3645-Y0GN35MA

Number of the basic standard _____

Model (see Table 3) _____

Shell code for hermetic, square flange fitting receptacle _____

Shell size code (see Table 4) _____

N: no earthed contacts _____

Contact arrangement (see EN 3645-002) _____
except those containing coaxial
or triaxial contacts or size 10 contacts

Contact code _____
M: male with solder cup
X: male with eyelet

Polarization: N, A, B, C, D, E _____

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