

# SLOVENSKI STANDARD

## SIST EN 3645-008:2015

01-april-2015

Nadomešča:

SIST EN 3645-008:2008

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**Aeronavtika - Konektorji, električni, okrogli, zaščiteni kontakt, hitra spojka z navojem, stalna delovna temperatura med 175 °C in 200 °C - 008. del: Zaščitna kapa za prosti vtič - Standard za proizvod**

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

Luft- und Raumfahrt - Elektrische Rundsteckverbinder, kontaktgeschützt, dreigängige Gewinde-Schnellkupplung, Betriebstemperatur 175 °C oder 200 °C konstant - Teil 008: Abreißsicherer freier Steckverbinder mit Massering - Produktnorm

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 008 : Fiche non largable avec bague de blindage - Norme de produit

**Ta slovenski standard je istoveten z: EN 3645-008:2015**

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**ICS:**

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems
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**SIST EN 3645-008:2015**

**en,fr,de**

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EUROPEAN STANDARD

**EN 3645-008**

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2015

ICS 49.060

Supersedes EN 3645-008:2007

English Version

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triple start threaded coupling operating temperature 175 °C or  
200 °C continuous - Part 008: Non release plug with grounding  
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This European Standard was approved by CEN on 5 December 2014.

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



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

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## Foreword

This document (EN 3645-008:2015) 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 August 2015, and conflicting national standards shall be withdrawn at the latest by August 2015.

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 3645-008:2007.

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

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**EN 3645-008:2015 (E)****1 Scope**

This European Standard specifies the characteristics of plugs with grounding rings in the family of circular, electrical connectors, with triple start threaded coupling.

It applies to models in Table 2.

For contacts, sealing plugs and cable outlet accessories associated with this plug see EN 3645-002. For receptacles and protective covers, see EN 3645-003, EN 3645-004, EN 3645-005, EN 3645-007, EN 3645-009 and EN 3645-010 respectively.

These connectors are derived from and interchangeable with models W, J, K, F, M and Z in specification MIL-DTL-38999/26.

**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 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 3645-003, *Aerospace series — Connectors electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 003: Wall-mount receptacle — Product standard*

EN 3645-004, *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*

EN 3645-005, *Aerospace series — Connectors electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 005: Receptacle, hermetic, round flange, brasage mounting — Product standard*

EN 3645-007, *Aerospace series — Connectors electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 007: Protective cover for plug — Product standard*

EN 3645-009, *Aerospace series — Connectors electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 009: Receptacle, round flange, jam nut mounting — Product standard*

EN 3645-010, *Aerospace series — Connectors electrical, circular, scoop-proof, triple start threaded coupling, operating temperature 175 °C or 200 °C continuous — Part 010: Receptacle, hermetic, round flange, jam nut mounting — Product standard*

MIL-DTL-38999/26, *Connectors, electrical, plug, circular, straight, removable crimp contacts, series III, metric*<sup>1)</sup>

1) Published by: DoD National (US) Mil. Department of Defense <http://www.defenselink.mil/>

### 3 Terms and definitions

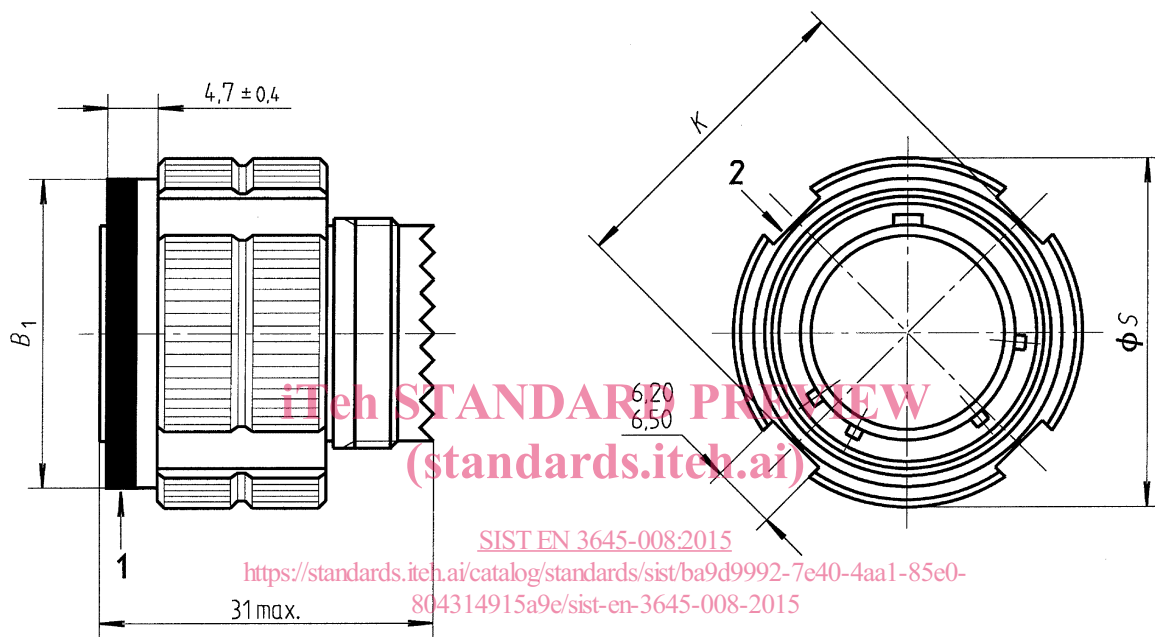
For the purposes of this document, the terms and definitions given in EN 3645-001 apply.

### 4 Required characteristics

#### 4.1 Dimensions, mass

See Figure 1, Figure 2 and Table 1.

Dimensions and tolerances are in millimetres.

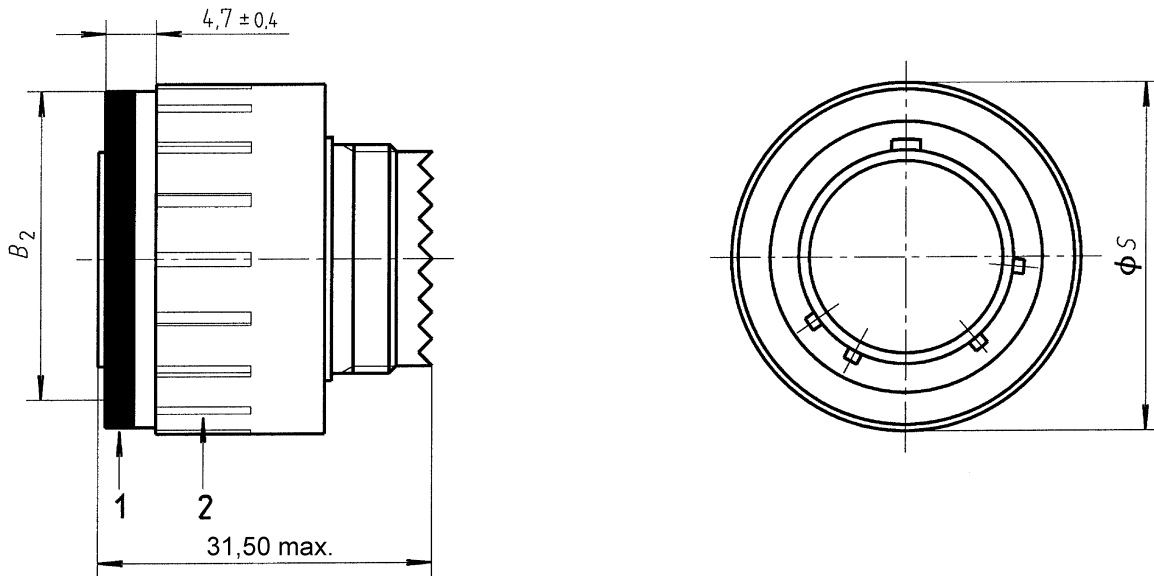


#### Key

- 1 Blue strip
- 2  $H$  number of flats

Figure 1 — Plug

## EN 3645-008:2015 (E)

**Key**

- 1 Blue strip
- 2  $J$  number of slots

**Figure 2 — Plug — Optional form for Models J and M****Table 1 — Plug — Dimensions**

Shell size	$B_1$ + 0,20 0	$B_2$ max.	$H$	$J$	$K$ max.	$S$ max.	Mass without contacts g max.		
							Models W, F, Z	Model K	Models J, M
09	18,40	20,60	4	12	19,00	21,80	15	32	9
11	21,10	23,60		14	21,90	25,00	20	41	15
13	25,40	28,20		16	26,10	29,40	27	57	21
15	28,70	31,30		18	29,30	32,50	34	69	25
17	32,20	34,50		20	32,80	35,70	37	72	29
19	34,90	37,30	8	22	35,50	38,50	48	94	38
21	38,10	40,50		24	38,70	41,70	55	105	42
23	41,10	43,70		26	41,70	44,90	67	117	51
25	44,30	46,80		28	44,90	48,00	71	140	57

**4.2 Materials and surface treatment**

See Table 2.

**4.3 Electrical, mechanical and climatic characteristics**

See EN 3645-002.



## 5 Designation

EXAMPLE

Description block	Identity block
<b>ELECTRICAL CONNECTOR</b>	<b>EN3645-F6GN16AA</b>
Number of the basic standard _____	
Model (see Table 2) _____	
Shell code for plug (see EN 3645-002) _____	
Shell size code (see Table 3) _____	
Letter indicating if: _____	
N: no grounded cavities	
G: grounded cavities	
K: no grounded cavities - specific fluid immersion (Fuel resistance, see EN 3645-001)	
H: grounded cavities - specific fluid immersion (Fuel resistance, see EN 3645-001)	
Q: quadrax cavities, grounded	
L: quadrax cavities, no grounded	
R: reinforced insert for power contact size 8	
Contact arrangement (see EN 3645-002) _____	
Contact code (see Table 4) _____	
Polarization: N, A, B, C, D, E _____	

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

**Table 2 — Model coding**

Models	Description
W	Sealed plugs, with shell in cadmium-plated aluminium alloy, olive green – Salt spray resistance 500 h – Plug with shielding ring – Crimped contacts – Maximum operating temperature 175 °C continuous
J	Sealed receptacles and plugs, with shell in cadmium-plated plastic composite, olive green – Salt spray resistance 2 000 h – Plug with shielding ring – Crimped contacts – 1 500 operations – Maximum operating temperature 175 °C continuous
K	Sealed receptacles, with shell in passivated stainless steel – Salt spray resistance 500 h – Plug with shielding ring – Fire resistant – Crimped contacts – Maximum operating temperature 200 °C continuous
F	Sealed plugs, with shell in nickel-plated aluminium alloy – Crimped contacts – Plug with shielding ring – Maximum operating temperature 200 °C continuous
M	Sealed plugs, with shell in nickel-plated plastic composite – Salt spray resistance 2 000 h – Plug with shielding ring – Crimped contacts – 1 500 operations – Maximum operating temperature 200 °C continuous
Z	Sealed plugs, zinc-nickel plated aluminium alloy, non-reflective black – Salt spray resistance 500 h – Plug with grounding spring – Crimped contacts – Maximum operating temperature 175 °C continuous