

SLOVENSKI STANDARD

SIST EN 4645-003:2010

01-januar-2010

Aeronavtika - Konektorji, optični, okrogli, z enim ali več zatiči, priključeni z navojnim obročkom, samozapiralni, s premerom kapice 1,25, s snemljivo centrino pučo - 003. del: Podlaga s kvadratno prirobnico - Standard za proizvod

Aerospace series - Connectors, optical, circular, single and multipin, coupled by threaded ring, self-locking 1,25 mm diameter ferrule with removable alignment sleeve holder - Part 003: Square flange receptacle - Product standard

Luft- und Raumfahrt - Optische Rundsteckverbinder mit Schraubkupplung, selbstsichernd Ferrulendurchmesser 1,25 mm, demontierbarer Zentrierhülsenhafter - Teil 003: Fester Steckverbinder mit quadratischem Montageflansch - Produktnorm

[SIST EN 4645-003:2010](https://standards.iteh.ai/catalog/standards/sist/efaa62f2-f035-4b10-88c1-800000000000/sist-en-4645-003-2010)

Série aérospatiale - Connecteurs optiques circulaires à accouplement par bague fileté, auto-freinante ferrule 1,25, équipés d'un porte sleeve démontable - Partie 003: Embase à fixation par colerette carrée - Norme produit

Ta slovenski standard je istoveten z: EN 4645-003:2009

ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
equipment and systems

SIST EN 4645-003:2010

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4645-003

November 2009

ICS 49.060

English Version

**Aerospace series - Connectors, optical, circular, single and
multipin, coupled by threaded ring, self-locking 1,25 mm
diameter ferrule with removable alignment sleeve holder - Part
003: Square flange receptacle - Product standard**

Série aérospatiale - Connecteurs optiques circulaires à
accouplement par bague filetée, auto-freinante ferrule 1,25
mm, équipés d'un porte manchon démontable - Partie 003:
Embase à fixation par collerette carrée - Norme produit

Luft- und Raumfahrt - Optische Rundsteckverbinder mit
Schraubkupplung, selbstsichernd Ferrulendurchmesser
1,25 mm, demontierbarer Zentrierhülsenhafter - Teil 003:
Fester Steckverbinder mit quadratischem Montageflansch -
Produktnorm

This European Standard was approved by CEN on 3 October 2009.

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.

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Foreword

This document (EN 4645-003:2009) 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 May 2010, and conflicting national standards shall be withdrawn at the latest by May 2010.

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 4645-003:2009 (E)**1 Scope**

This European Standard specifies the characteristics of mounted square flange 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 applied. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2424:2008, *Aerospace series — Marking of aerospace products*

EN 3645-003, *Aerospace series — Connectors, electrical, circular, scoop-proof, triple start threading coupling operating temperature 175 °C or 200 °C continuous — Part 003: Receptacle square flange mounting — Product standard*

EN 4639-101, *Aerospace series — Connectors, optical, rectangular, modular, multicontact, 1,25 diameter ferrule, with removable alignment sleeve holder — Part 101: Optical contact for cable EN 4641-100 — Operating temperatures between - 65 °C and 125 °C — Product standard*

EN 4639-102, *Aerospace series — Connectors, optical, rectangular, modular, multicontact, 1,25 diameter ferrule, with removable alignment sleeve holder — Part 102: Optical contact for cable EN 4641-102 — Operating temperature between - 55 °C and 100 °C — Product standard*

EN 4645-001:2009, *Aerospace series — Connectors, optical, circular, single and multipin, coupled by threaded ring, self-locking 1,25 mm diameter ferrule with removable alignment sleeve holder — Part 001: Technical specification* ¹⁾

EN 4645-002:2009, *Aerospace series — Connectors, optical, circular, single and multipin, coupled by threaded ring, self-locking 1,25 mm diameter ferrule with removable alignment sleeve holder — Part 002: Specification of performance and contact arrangements* ¹⁾

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

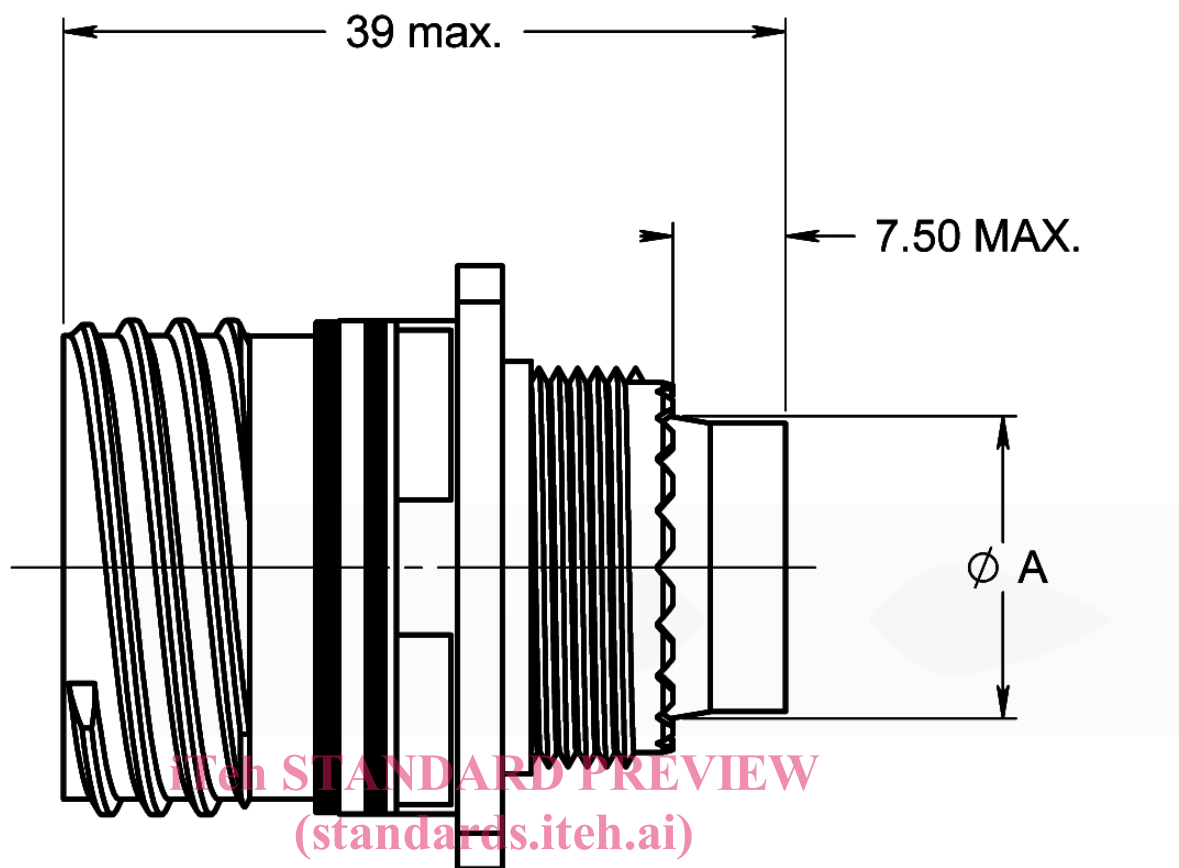
3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 4645-001:2009 apply.

4 Required characteristics**4.1 Dimensions and masses**

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

¹⁾ Published as ASD-STAN Prestandard at the date of publication of this standard.



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All other dimensions are in accordance with EN 3645-003.

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Figure 1

Table 1

Shell Size	Ø A max. mm	Mass g max. Class			
		F, W, O	K, S	J, M, C	B
11	11,05	15,00	34,00	13,00	32,00
13	14,00	20,00	44,00	16,00	41,00
15	16,92	27,00	50,00	21,00	48,00
17	20,09	36,00	74,00	30,00	71,00
19	22,78	39,00	77,00	33,00	74,00
21	25,96	49,00	95,00	40,00	91,00
23	29,13	55,00	100,00	47,00	95,00
25	32,31	62,00	118,00	53,00	113,00

EN 4645-003:2009 (E)**4.2 Material and surface treatment**

See EN 4645-002:2009, Table 1.

4.3 Panel cut-out

Panel cut-out is in accordance with EN 3645-003.

4.4 Optical, mechanical and climatic characteristics

For the connector: See EN 4645-001.

For the contacts: See EN 4639-101 and EN 4639-102.

5 Designation

EXAMPLE

Description block	Identity block
CONNECTOR, OPTICAL	EN4645-0XXXXXX
Number of the basic standard	
Square flange receptacle	
Housing size (see EN 4645-002)	
Arrangement code (see EN 4645-002)	
Environmental class (see EN 4645-002)	
Polarization (see EN 4645-002)	

6 Marking

The marking shall include the identification, the date of manufacture (year, week) and the name or trade mark of the manufacturer or conform to EN 2424:2008, code P, if required.

7 Technical specification

See specific optical contacts EN 4639-101 and EN 4639-102 product standard. ²⁾

8 Quality

According to EN 9133.

²⁾ Performance is directly linked to optical contact and fibre technology.