

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 004: Jam nut receptacle —
Product standard**

ICS 49.060

National foreword

This British Standard is the UK implementation of EN 4645-004:2009.

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A list of organizations represented on this committee can be obtained on request to its secretary.

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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 004: Jam nut 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 004: Embase à collerette ronde à fixation par écrou - Norme produit

Luft- und Raumfahrt - Optische Rundsteckverbinder mit Schraubkupplung, selbstsichernd Ferrulendurchmesser 1,25 mm, demontierbarer Zentrierhülsenhafter - Teil 004: Fester Steckverbinder mit Mutterbefestigung - Produktnorm

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Foreword

This document (EN 4645-004:2009) 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of an identical text or by endorsement, at the latest by May 2010, and conflicting national standards shall be withdrawn at the latest by May 2010.

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1 Scope

This European 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 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.

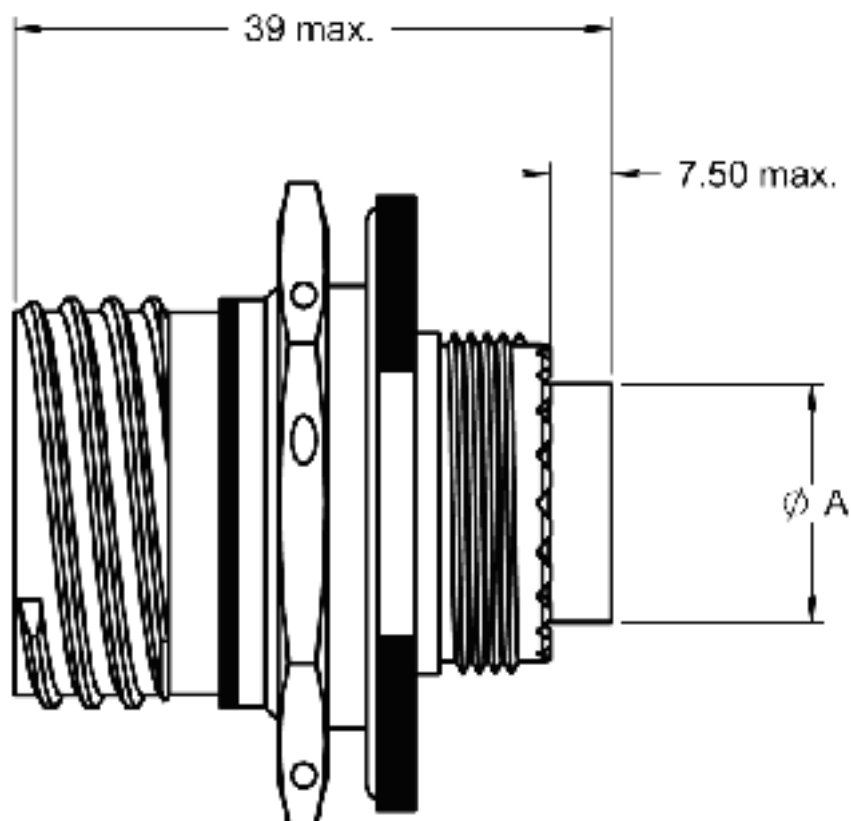


Figure 1

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

Table 1

Shell Size	Ø A max. mm	Mass g max. Class			
		F, W, O	K, S	J, M, C	B
11	11,05	21,00	50,00	17,00	48,00
13	14,00	29,00	68,00	25,00	66,00
15	16,92	34,00	77,00	29,00	73,00
17	20,09	45,00	101,00	38,00	96,00
19	22,78	53,00	116,00	45,00	111,00
21	25,96	67,00	143,00	56,00	136,00
23	29,13	72,00	154,00	61,00	144,00
25	32,31	81,00	170,00	70,00	161,00

4.2 Material and surface treatment

See EN 4645-002:2009, Table 1.

4.3 Panel cut-out

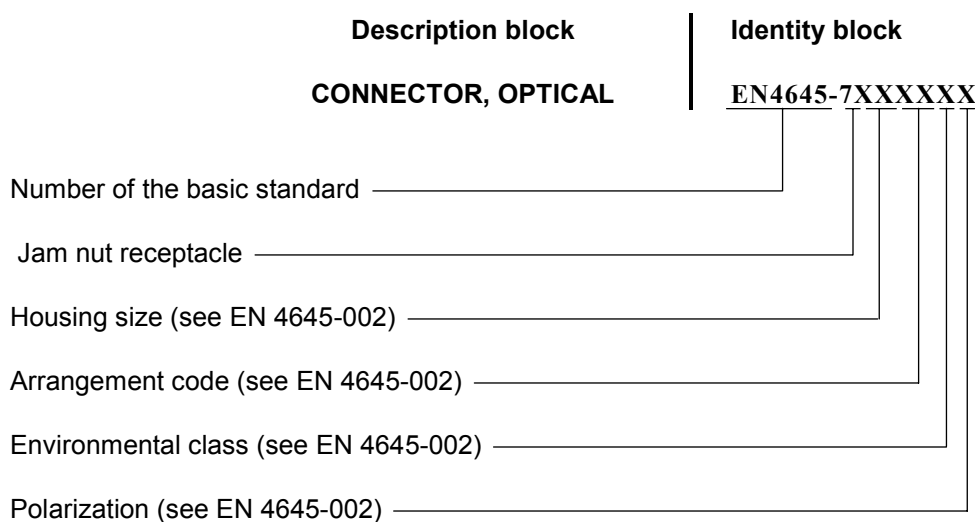
Panel cut-out is in accordance with EN 3645-003.

4.4 Optical, mechanical and climatic characteristics

See EN 4645-002.

5 Designation

EXAMPLE



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 contact 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.

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