



BSI Standards Publication

**Aerospace series —
Connectors, optical, circular,
single and multipin, coupled
by triple start threaded ring —
Flush contacts**

Part 003: Square flange receptacle —
Product standard

National foreword

This British Standard is the UK implementation of EN 4531-003:2012. It supersedes BS EN 4531-003:2007 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ACE/6, Aerospace avionic electrical and fibre optic technology.

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

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English Version

Aerospace series - Connectors, optical, circular, single and multipin, coupled by triple start threaded ring - Flush contacts - Part 003: Square flange receptacle - Product standard

Série aérospatiale - Connecteurs optiques circulaires à accouplement par bague fileté à trois filets - Contacts affleurants - Partie 003: Embase à fixation par collerette carrée - Norme de produit

Luft- und Raumfahrt - Optische Rundsteckverbinder mit dreigängiger Schraubkupplung - Bündige Kontakte - Teil 003: Fester Steckverbinder mit quadratischem Montageflansch - Produktnorm

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Foreword

This document (EN 4531-003:2012) 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of an identical text or by endorsement, at the latest by November 2012, and conflicting national standards shall be withdrawn at the latest by November 2012.

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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 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 2424, *Aerospace series — Marking of aerospace products*

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

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

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

3 Terms and definitions

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

4 Required characteristics

4.1 Dimensions and masses

See EN 3645-003 for dimensions and Table 1 for masses.

Table 1

Shell size	Mass g Classes		
	F, W, N and Z	K and S	J, M and X
9	10	25	10
11	16	35	13
13	22	45	19
15	31	59	27
19	57	98	45
21	65	110	51
25	97	148	90

4.2 Material and surface treatment

See EN 4531-002.

4.3 Panel cut-out

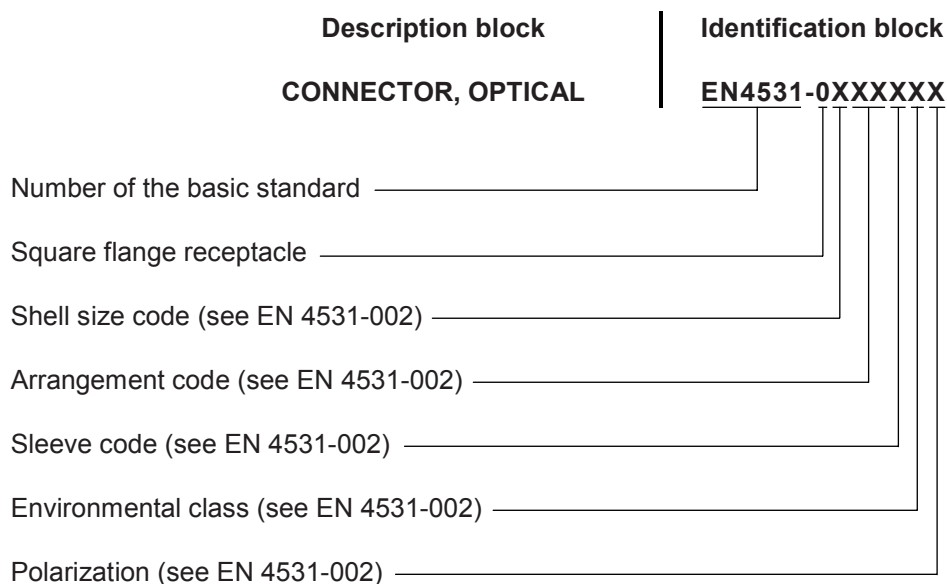
See EN 3645-003.

4.4 Optical, mechanical and climatic characteristics

See EN 4531-002.

5 Designation

EXAMPLE



6 Marking

The marking shall include the identification defined in Clause 5, the date of manufacture (year, week) and the name or trade mark of the manufacturer or conform to standard EN 2424, code P, if required.

7 Technical specification

See EN 4531-001.

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