



BSI Standards Publication

**Aerospace series —
Connectors, electrical, circular,
bayonet coupling, operating
temperature 175 °C or 200 °C
continuous**

Part 004: Receptacle, jam-nut mounting —
Product standard

National foreword

This British Standard is the UK implementation of EN 3646-004:2015. It supersedes BS EN 3646-004:2013 which is withdrawn.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, electrical, circular, bayonet
coupling, operating temperature 175 °C or 200 °C
continuous - Part 004: Receptacle, jam-nut mounting -
Product standard**

Série aérospatiale - Connecteurs électriques circulaires
à accouplement par baïonnettes, température
d'utilisation 175 °C ou 200 °C continu - Partie 004:
Embase à fixation par écrou - Norme de produit

Luft- und Raumfahrt - Elektrische Rundsteckverbinder
mit Bajonettkupplung, Betriebstemperatur 175 °C oder
200 °C konstant - Teil 004: Fester Steckverbinder mit
Mutterbefestigung - Produktnorm

This European Standard was approved by CEN on 8 June 2015.

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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.

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

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European foreword

This document (EN 3646-004:2015) 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of an identical text or by endorsement, at the latest by May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.

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 3646-004:2013.

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.

1 Scope

This Standard defines the characteristics of the jam-nut mounted receptacles of the family of bayonet coupling circular connectors, intended for use in an operating temperature range of $-65\text{ }^{\circ}\text{C}$ to $175\text{ }^{\circ}\text{C}$ or $200\text{ }^{\circ}\text{C}$ continuous.

It applies to models defined in Table 4.

For contact, filler plugs and rear accessories associated with this receptacle see EN 3646-002. For plugs and protective covers see EN 3646-008 and EN 3646-009 respectively.

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 3155-002, *Aerospace series — Electrical contacts used in elements of connection — Part 002: List and utilization of contacts*

EN 3646-001, *Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature $175\text{ }^{\circ}\text{C}$ or $200\text{ }^{\circ}\text{C}$ continuous — Part 001: Technical specification*

EN 3646-002, *Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature $175\text{ }^{\circ}\text{C}$ or $200\text{ }^{\circ}\text{C}$ continuous — Part 002: Specification of performance and contact arrangements*

EN 3646-008, *Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature $175\text{ }^{\circ}\text{C}$ or $200\text{ }^{\circ}\text{C}$ continuous — Part 008: Plug — Product standard*

EN 3646-009, *Aerospace series — Connectors, electrical, circular, bayonet coupling, operating temperature $175\text{ }^{\circ}\text{C}$ or $200\text{ }^{\circ}\text{C}$ continuous — Part 009: Protective cover for receptacle — Product standard*

ISO 3161, *Aerospace — UNJ threads — General requirements and limit dimensions*

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 3646-001 apply.

4 Required characteristics

4.1 Dimensions and mass

See Figure 1 and Table 1.

Dimensions and tolerances are in millimetres, they apply after surface treatment.

Interface mating and rear dimensions, see EN 3646-001.