



BSI Standards Publication

**Aerospace series — Connector,
electrical and optical,
rectangular, modular,
rectangular inserts, operating
temperature 175 °C (or 125 °C)
continuous**

Part 025: Receptacle, size 2, with flange,
class A, C and E — Product standard

National foreword

This British Standard is the UK implementation of EN 4644-025:2015.

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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Date	Text affected
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EUROPEAN STANDARD

EN 4644-025

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2015

ICS 49.060; 49.090

English Version

**Aerospace series - Connector, electrical and optical,
rectangular, modular, rectangular inserts, operating
temperature 175 °C (or 125 °C) continuous - Part 025:
Receptacle, size 2, with flange, class A, C and E - Product
standard**

Série aérospatiale - Connecteur, électrique et optique,
rectangulaire, modulaire, à inserts rectangulaires,
température de fonctionnement 175 °C (ou 125 °C)
continu - Partie 025 : Embase, taille 2, avec platine,
classes A, C et E - Norme de produit

Luft- und Raumfahrt - Elektrische und optische
Rechtecksteckverbinder, modular, rechteckige
Kontakteinsätze, Dauerbetriebstemperatur 175 °C
(oder 125 °C) konstant - Teil 025: Fester
Steckverbinder, Größe 2, mit Montageflansch, Klassen
A, C und E - Produktnorm

This European Standard was approved by CEN on 30 June 2015.

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 4644-025:2015) 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of an identical text or by endorsement, at the latest by May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.

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1 Scope

This European Standard specifies the size 2 receptacle for disconnect applications used in the family of modular rectangular electrical and optical connector with rectangular inserts. The plug corresponding to this receptacle is defined in EN 4644-021 or EN 4644-022 or EN 4644-023.

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 4644-001, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts operating temperature 175 °C (or 125 °C) continuous — Part 001: Technical specification*

EN 4644-002, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts operating temperature 175 °C (or 125 °C) continuous — Part 002: Specification of performance and contact arrangements*

EN 4644-021, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts operating temperature 175 °C (or 125 °C) continuous — Part 021: Plug, size 2, without mounting holes, class A, C and E — Product standard*

EN 4644-022, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts operating temperature 175 °C (or 125 °C) continuous — Part 022: Plug, size 2, with mounting holes, class A, C and E — Product standard*

EN 4644-023, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts operating temperature 175 °C (or 125 °C) continuous — Part 023: Plug, size 2, with ground block, class B and F — Product standard*

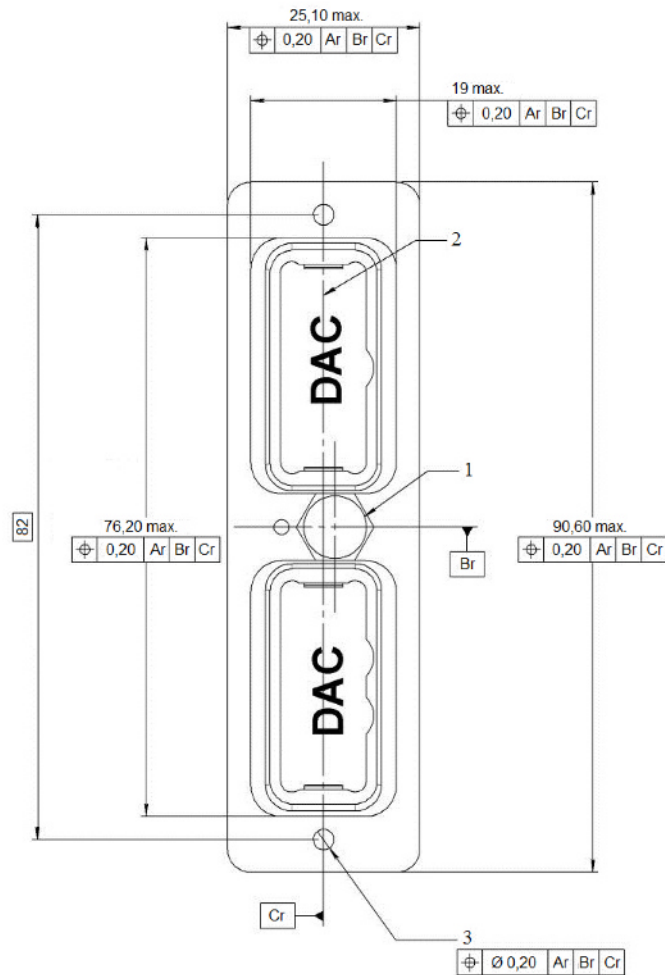
3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 4644-001 apply.

4 Required characteristics

4.1 Dimensions and recommended panel cut-out

See Figure 1 to Figure 3.

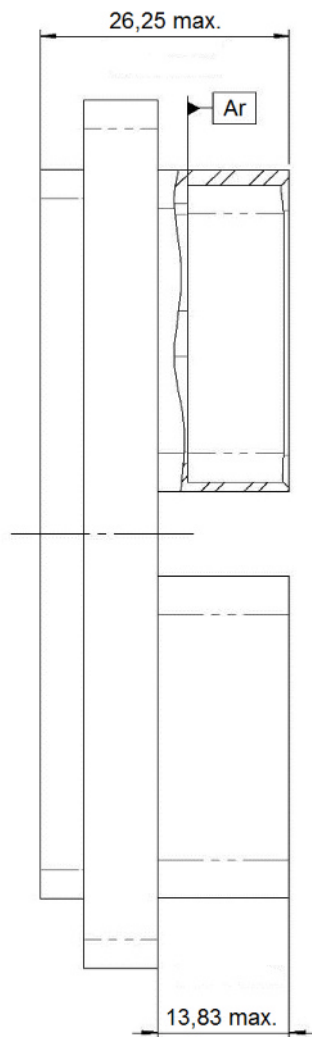


Key

- 1 See EN 4644-001.
- 2 19,00 axis
- 3 Two $\varnothing 3,09$ min. (3,20 max.) clear holes or 6-32 UNC self-locking threaded holes or 4-40 UNC self-locking threaded holes

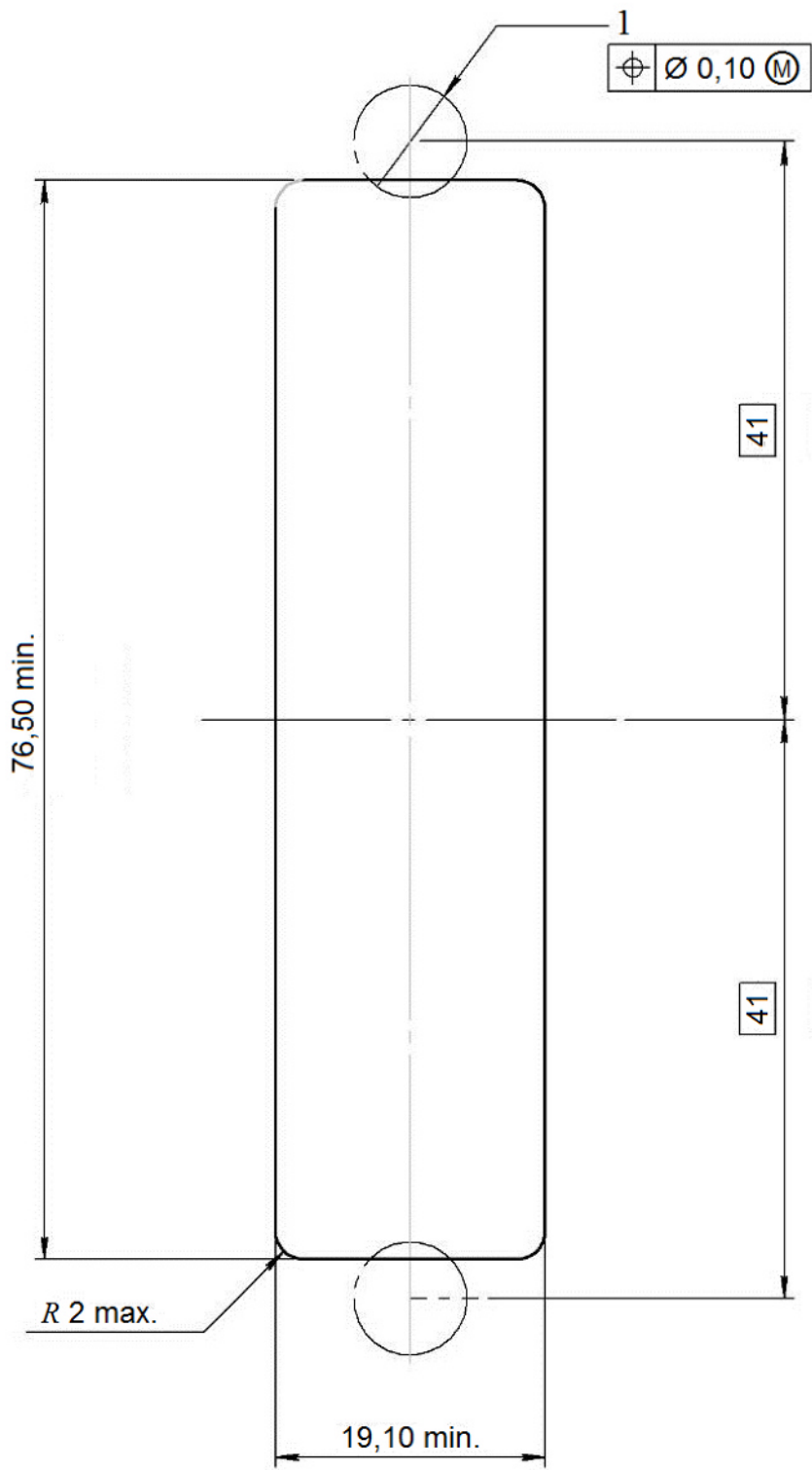
NOTE Ar, Br, Cr axis, see EN 4644-001.

Figure 1



NOTE Ar axis, see EN 4644-001.

Figure 2



Key

- 1 Two screws head maximum diameter: 6

Figure 3 — Panel cut-out

4.2 Mass

60 g max.

5 Designation

EXAMPLE

Description block	Identity block
ELECTRICAL CONNECTOR, SIZE 2 RECEPTACLE	EN 4644-025ADX
Number of this standard	
Shell class (see EN 4644-002)	
Housing type: (see Figures 1 and 2) D: with 2 × Ø 3,09 min. (3,20 max.) clear holes F: with 2 × 6-32 UNC threaded holes L: with 2 × 4-40 UNC threaded holes	
Polarization code (see EN 4644-002)	

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