
5 YfcbUj H_UË?cbY_lcfŹYY_f] b]ždfUj c_cfb]žg`hYgb]bc`_Udc`U]`VfYn`b`Ź
d`Ugh] b]a`c\]y`Ya žnUdcfb]a`a`Y`Ub]na`ca`žn`XY`cj`bc`hYa`dYfUi`fc`a`YX`Ë`)`š7`]b
%+)`š7`Ë`\$\$(`"XY`?cbY_lcfŹ`n`a`cý`_ja`_`cb]U`_lca`_Ë`G]ubXUfX`n`Udfc]nj`cX

Aerospace series - Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures - 55 °C to 175 °C - Part 004: Connectors with male contacts - Product standard

Luft- und Raumfahrt - Elektrische Rechtecksteckverbinder mit und ohne hintere Abdichtung, Plastikgehäuse, Verriegelungssystem, Betriebstemperaturen von - 55 °C bis 175 °C - Teil 004: Steckverbinder mit Stiftkontakten - Produktnorm

SIST EN 3545-004:2006

Série aérospatiale - Connecteurs électriques, rectangulaires, étanches et non étanches a l'arriere, a boîtier en plastique, a verrouillage, températures d'utilisation - 55 °C a 175 °C - Partie 004 : Connecteurs a contacts mâles - Norme de produit

Ta slovenski standard je istoveten z: EN 3545-004:2005

ICS:

49.060

SIST EN 3545-004:2006

en

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English Version

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Luft- und Raumfahrt - Elektrische Rechtecksteckverbinder
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Verriegelungssystem, Betriebstemperaturen von - 55 °C bis
175 °C - Teil 004: Steckverbinder mit Stiftkontakte -
Produktnorm

This European Standard was approved by CEN on 26 September 2005.

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 Central Secretariat 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 Central Secretariat 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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Foreword

This European Standard (EN 3545-004:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard specifies connectors with male contacts in the family of rectangular electrical connectors with sealed and non-sealed rear, plastic shell, locking device, for operating temperatures from – 55 °C to 175 °C.

These connectors may be used as receptacles (fixed housings) or plugs (free housings) in conjunction with the following coding and attachment system:

- male coding and attachment system for mounting on a fixed housing;
- female coding and attachment system for mounting on a free housing.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2591-100, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General.*¹⁾

EN 3155-002, *Aerospace series — Electrical contacts used in elements of connection — Part 002: List and utilization of contacts.*¹⁾

EN 3545-001, *Aerospace series — Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures – 55 °C to 175 °C — Part 001: Technical specification.*¹⁾

EN 3545-002, *Aerospace series — Connectors, electrical, rectangular, with sealed and non-sealed rear, plastic housing, locking device, operating temperatures – 55 °C to 175 °C — Part 002: Specification of performance and contact arrangements.*¹⁾

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 2591-100 apply.

4 Required characteristics

4.1 Dimensions, mass

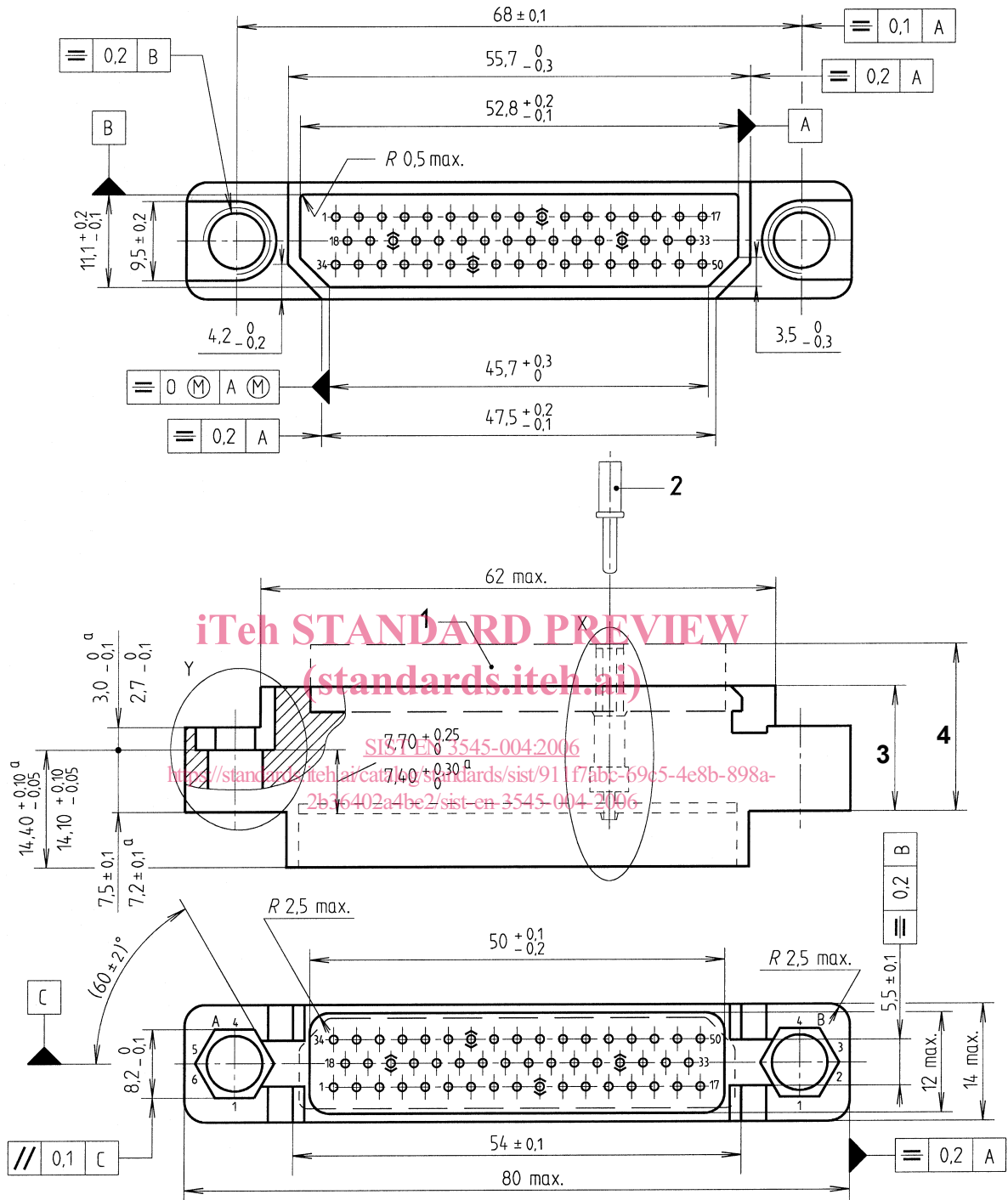
See Figure 1, Figure 2 and Table 1.

Dimensions and tolerances are in millimetres.

Mass (without accessory and without contact):

- non-sealed housing: 19 g max.;
- sealed housing: 21 g max.

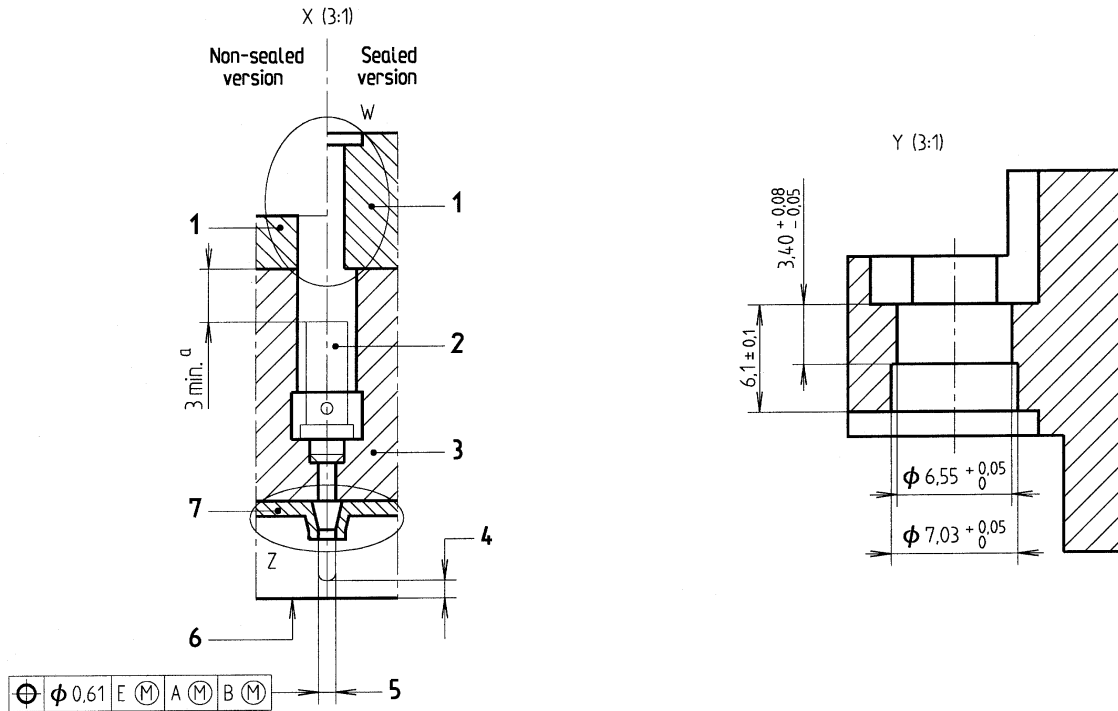
¹⁾ Published as AECMA Prestandard at the date of publication of this standard.



Key

- | | | | |
|---|--|---|---|
| 1 | Grommet for rear sealing | 4 | 23 max. for contact arrangement 07 and 08 |
| 2 | Male contact | | 35 max. for contact arrangement 16 |
| 3 | 14,10 max. for contact arrangement 07 and 08 | | 20 max. for other contact arrangements |
| | 26,1 max. for contact arrangement 16 | | |
| | 15 max. for other contact arrangements | | |
- ^a Applicable dimensions for contact arrangement 07 and 08

Figure 1



Key

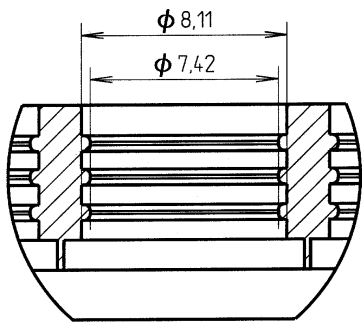
- 1 Rear grommet
 - 2 Male contact
 - 3 Rigid insulator
 - 4 0 to 0,66 for quadrax contact (see NOTE 1)
1 to 1,9 for other contacts (see NOTE 1)
 - 5 $\varnothing E$ (see NOTE 2)
 - 6 Front face of female housing
 - 7 Flexible interface seal
- ^a Not applicable for arrangement code 07 and 08

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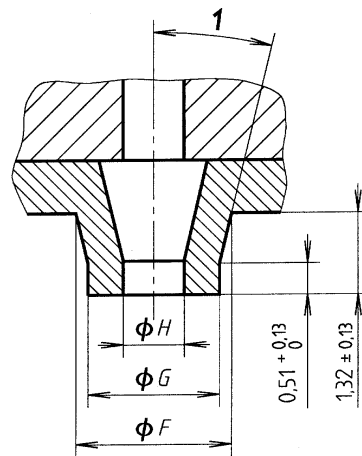
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W (4:1)
Grommet dimensions for size 8 cavity



Z (10:1)



Key

- 1 $(24 \pm 0,5)^\circ$ for contact size 08 ($13,5 \pm 0,5)^\circ$ for other contacts

NOTE 1 Maximum axial clearance: 0,5

NOTE 2 Value given for end contact. For value of contact diameter, see product standard.

Figure 2

Table 1

Cavity for contact	<i>F</i>	<i>G</i>	<i>H</i>
22	1,88 1,75	1,35 1,27	0,71
20	2,44 2,16	1,91 1,83	0,97
16	3,02 2,90	2,49 2,41	1,52
12	3,84 3,71	3,30 3,23	2,34
10	4,62 4,50	4,09 4,01	3,12
8	6,85 6,69	6,16 6,06	5,52 5,42

4.2 Recommended panel cut-out for connectors fitted with male coding and attachment system

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See Figure 3.

Maximum thickness of panel: 1,6

Minimum pitch between connectors: 14,2

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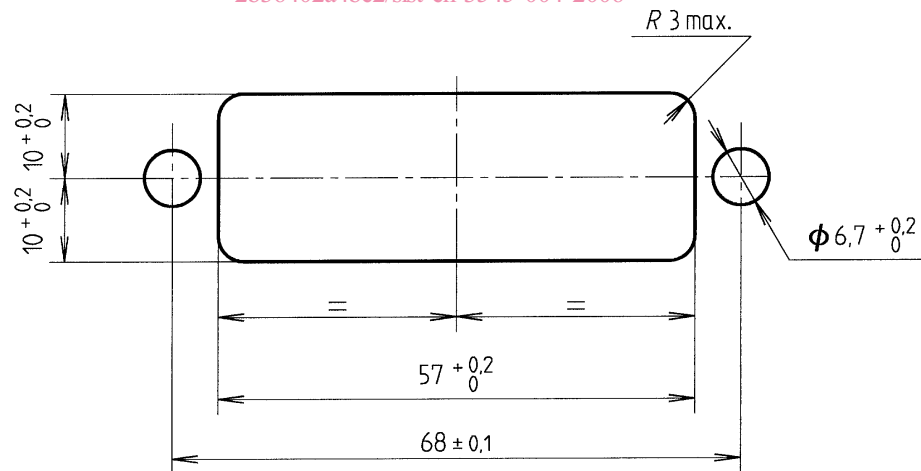


Figure 3

4.3 Main general characteristics

See EN 3545-002.