SLOVENSKI STANDARD
SIST EN 3218-008:2009

01-september-2009

Aeronavtika - Konektorji, pravokotni, s kovinskim ohišjem in vijaļ nim zaklepanjem - 008. del: Vtiļ nica z loļ ljivimi kontakti "crimp", velikost 20 - Standard za proizvod

Aerospace series - Connectors, rectangular, with metallic shells and screw-locking - Part 008: Receptacle with rear-removable size 20 crimp contacts - Product standard

Luft- und Raumfahrt - Rechtecksteckverbinder mit metallischem Gehäuse und Schraubverriegelung - Teil 008: Fester Steckverbinder mit Crimpkontakten, Größe 20, rückseitig entriegelbar - Produktnorm

Série aérospatiale - Connecteurs rectangulaires à boîtiers métalliques et à verrouillage par vis - Partie 008 : Embase avec contacts à sertir, taille 20, démontables par l'arrière - Norme de produit

Ta slovenski standard je istoveten z: **EN 3218-008:2006**

ICS:

49.060	Letalska in vesoljska elektriļ na oprema in sistemi	Aerospace electric equipment and systems

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EUROPEAN STANDARD

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English Version

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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 Central Secretariat has the same status as the official versions.

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Foreword

European Standard document (EN 3218-008:2006) 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of an identical text or by endorsement, at the latest by October 2006, and conflicting national standards shall be withdrawn at the latest by October 2006.

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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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard defines rectangular connector receptacles with metallic shells and screw-locking, in the receptacle version with rear-removable size 20 crimp contacts.

For associated plugs, see EN 3218-007 and for associated contacts see EN 3155-022 and EN 3155-023.

For filler plugs and protective covers, see EN 4008-003 and EN 3218-010.

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 3155-022, *Aerospace series – Electrical contacts used in elements of connection – Part 022: Contacts, electrical rectangular, male, type A, crimp, class R – Product standard.*

EN 3155-023, *Aerospace series – Electrical contacts used in elements of connection – Part 023: Contacts, electrical rectangular, female, type A, crimp, class R – Product standard.*

EN 3218-001, *Aerospace series – Connectors, rectangular, with metallic shells and screw-locking – Part 001: Technical specification.*

EN 3218-002, *Aerospace series – Connectors, rectangular, with metallic shells and screw-locking – Part 002: Specification of performance and contact arrangements.*

EN 3218-007, *Aerospace series – Connectors, rectangular, with metallic shells and screw-locking – Part 007: Plug with rear-removable size 20 crimp contacts – Product standard.*

EN 3218-010, *Aerospace series – Connectors, rectangular, with metallic shells and screw-locking – Part 010: Protective covers for EN 3218-006 and EN 3218-008 connectors – Product standard.*

EN 4008-003, *Aerospace series – Elements of electrical and optical connection – General accessories and tooling – Part 003: Filler plugs for contacts used in elements of electrical connection – Product standard.*[1)]

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 3218-001 apply.

4 Required characteristics

4.1 Dimensions and masses

Dimensions are shown in Figure 1 and in Table 1.

Masses are indicated in Table 1.

Dimensions and tolerances are in millimetres.

1) In preparation at the date of publication of this standard.

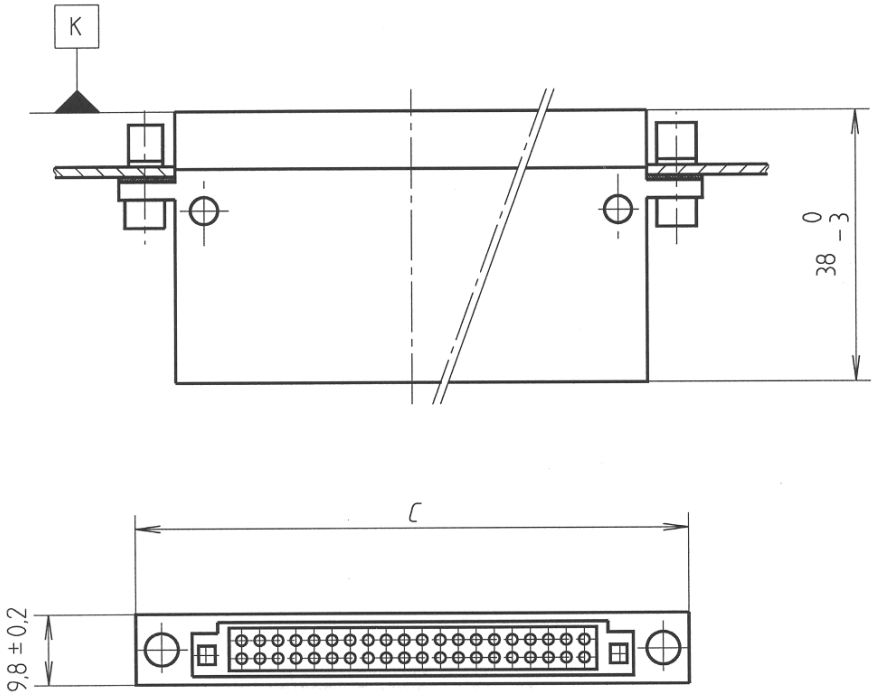


Figure 1

Table 1

Size	C max.	Mass [a] with contacts g max.	Mass [a] without contact g max.
1	51,5	32	28
2	77,0	48	40

[a] Accessories included

4.2 Materials and surface finishing

See EN 3218-002.

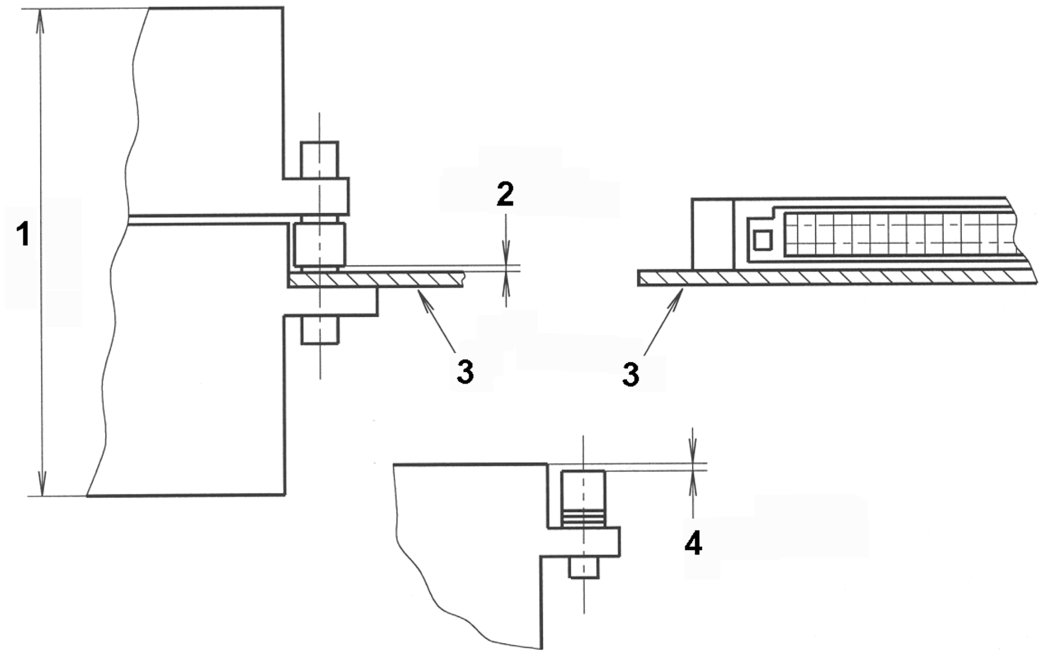
4.3 Main general characteristics

See EN 3218-002.

4.4 Panel mounting and cut-out

4.4.1 Panel mounting

See Figure 2 and Table 2.



Key

1 65,5 max. – 75 Unmated

2 Spacer thickness: 0,8

3 Panel

4 0 to 1 – Mating condition

Figure 2 — Rear and side mountings

Maximum permissible torque on the locking screw: 1,7 N.m

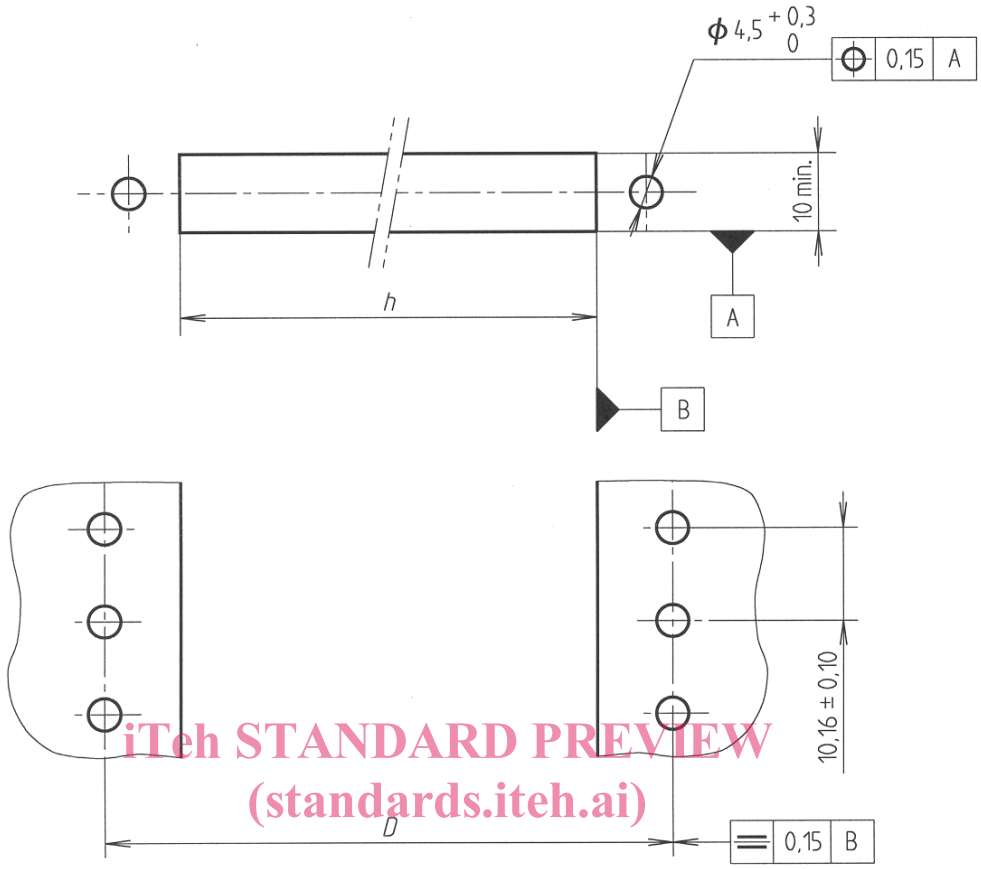
Where receptacles are mounted by the rear face, the number of compensating spacers varies depending on the thickness of the panel (see Table 2). Mounting from the front of the bulkhead is not permitted.

Table 2 — Compensating spacers

	Panel thickness	Number of spacers
Side mounted	–	3
	≤ 1	2
Rear mounted	1,1 to 1,8	1
	1,9 to 2,4	0

4.4.2 Panel cut-out

See Figures 3 and 4 and Table 3.



Maximum thickness of panel 2,4

Figure 3 — Rear panel mounting of receptacles

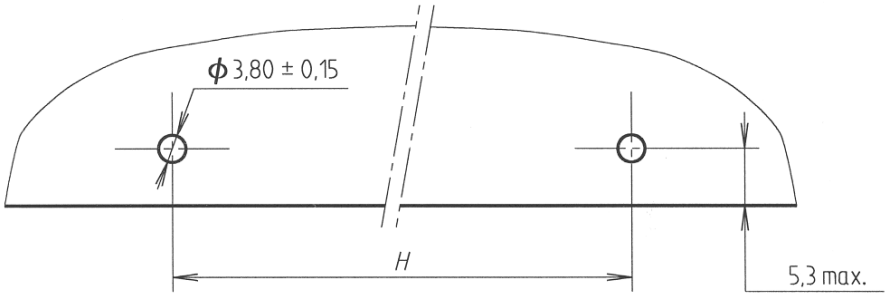


Figure 4 — Side panel mounting of receptacles

Table 3 — Receptacles mounting

	D ± 0,1	*H* ± 0,1	*h* +0,4 0
Size 1	44,45	32,30	38,40
Size 2	69,85	57,70	63,80