

**SLOVENSKI STANDARD**  
**SIST EN 4644-142:2017****01-marec-2017****Nadomešča:****SIST EN 4644-142:2012**

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**Aeronavtika - Konektor, električni in optični, pravokotni, modularni, pravokotni kontaktni vložki, stalna delovna temperatura 175 °C (ali 125 °C) - 142. del: Fiksni konektorji, velikost 4, za priključevanje naprave, razreda C in D - Standard za proizvod**

Aerospace series - Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous - Part 142: Size 4 receptacle for rack and panel application, class C and D - Product standard

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Luft- und Raumfahrt - Elektrische und optische Rechtecksteckverbinder, modular, rechteckige Kontakteinsätze, Dauerbetriebstemperatur 175 °C (oder 125 °C) konstant - Teil 142: Fester Steckverbinder, Größe 4, für Einschubanwendungen - Produktnorm

Série aérospatiale - Connecteur, électrique et optique, rectangulaire, modulaire, à inserts rectangulaires, température de fonctionnement 175 °C (ou 125 °C) continu - Partie 142: Embase, taille 4, pour applications rackables, classes C et D - Norme de produit

**Ta slovenski standard je istoveten z: EN 4644-142:2016**

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**ICS:**

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

**SIST EN 4644-142:2017****en,fr,de**

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EUROPEAN STANDARD

EN 4644-142

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

ICS 49.060; 49.090

Supersedes EN 4644-142:2012

English Version

**Aerospace series - Connector, electrical and optical,  
rectangular, modular, rectangular inserts, operating  
temperature 175 °C (or 125 °C) continuous - Part 142: Size  
4 receptacle for rack and panel application, class C and D -  
Product standard**

Série aérospatiale - Connecteur, électrique et optique,  
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température de fonctionnement 175 °C (ou 125 °C)  
continu - Partie 142 : Embase, taille 4, pour  
applications rackables, classes C et D - Norme de  
produit

Luft- und Raumfahrt - Elektrische und optische  
Rechtecksteckverbinder, modular, rechteckige  
Kontakteinsätze, Dauerbetriebstemperatur 175 °C  
(oder 125 °C) konstant - Teil 142: Fester  
Steckverbinder, Größe 4, für Einschubanwendungen,  
Klasse C und D - Produktnorm

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This European Standard was approved by CEN on 23 October 2016.

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 CEN-CENELEC Management Centre or to any CEN member.

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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

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

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## European foreword

This document (EN 4644-142:2016) 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 European 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 June 2017, and conflicting national standards shall be withdrawn at the latest by June 2017.

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 4644-142:2012.

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.

**EN 4644-142:2016 (E)****1 Scope**

This European Standard specifies the size 4 receptacle for rack and panel application used in the family of modular rectangular electrical and optical connector with rectangular inserts. The plug corresponding to this receptacle is defined in EN 4644-141.

**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 4644-141, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 141: Size 4 plug for rack and panel applications, class C and D — Product standard*

**3 Terms and definitions**

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

**4 Required characteristics****4.1 Dimensions and recommended panel cut out**

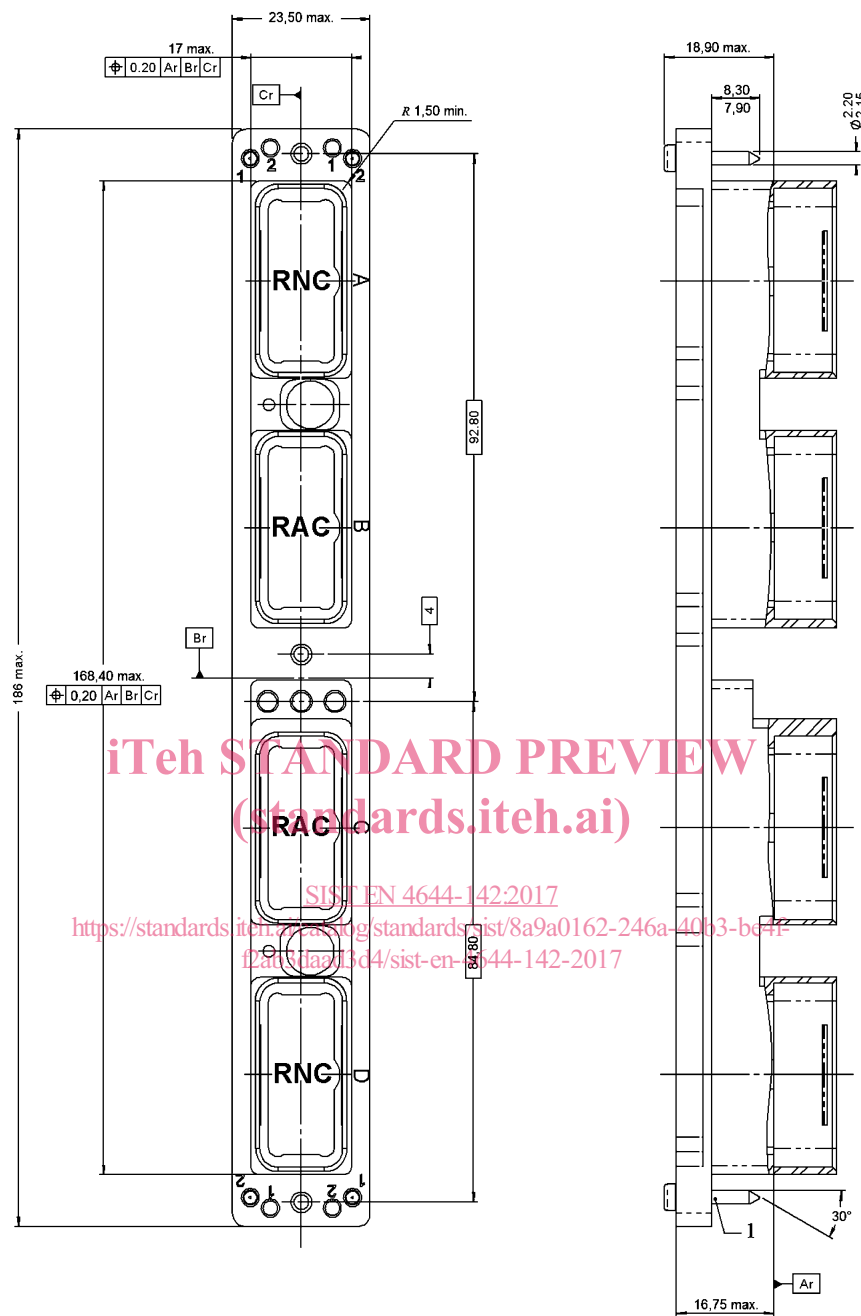
See Figures 1 to 2.

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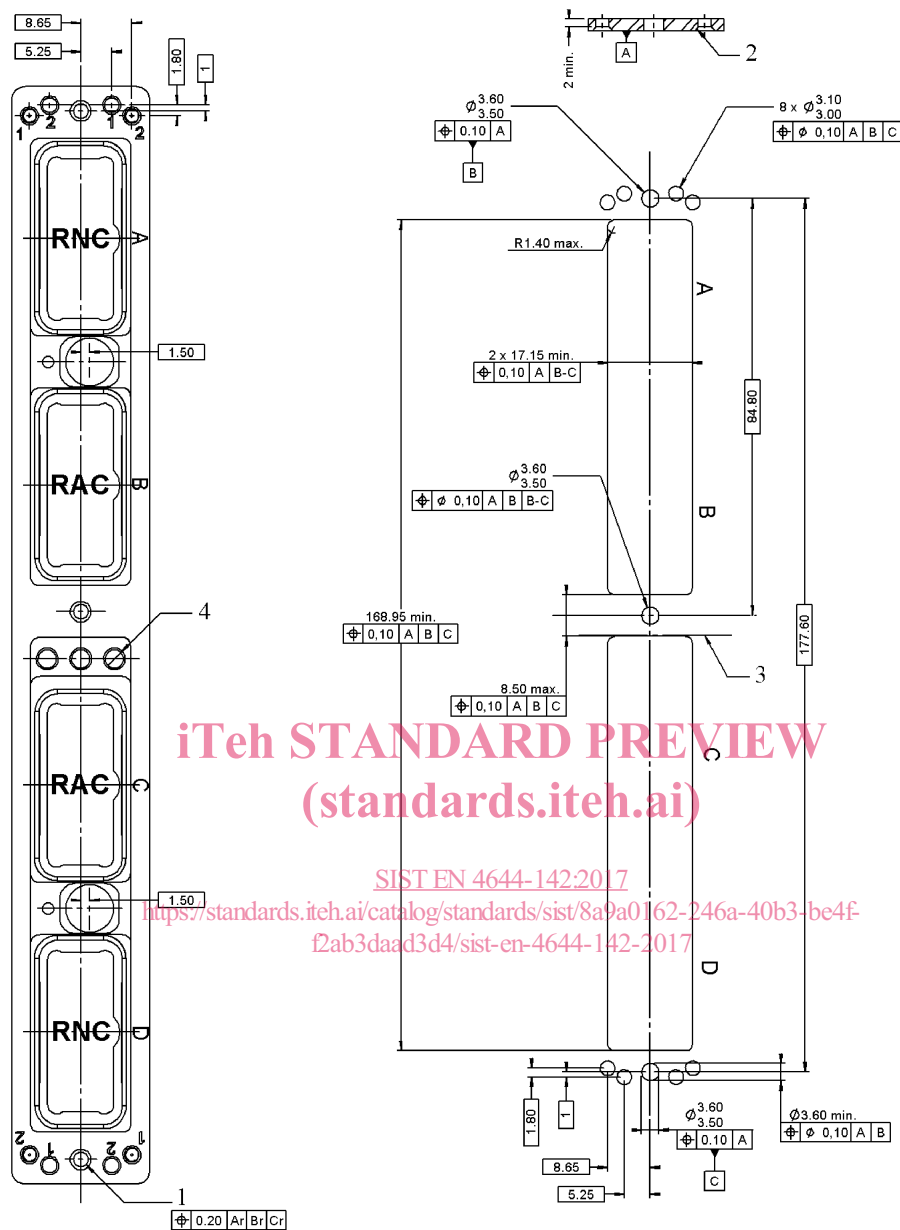


### Key

1 Coding pins

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

Figure 1



### Key

- 1 2 self-locking thread (see housing type in Clause 5 "Designation" for more details)
- 2 Chamfer
- 3 Axis of 177,60
- 4 See EN 4644-001

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

**Figure 2 — Universal panel cut-out (compatible with all the shell coding)**



## 4.2 Mass

80 g max.

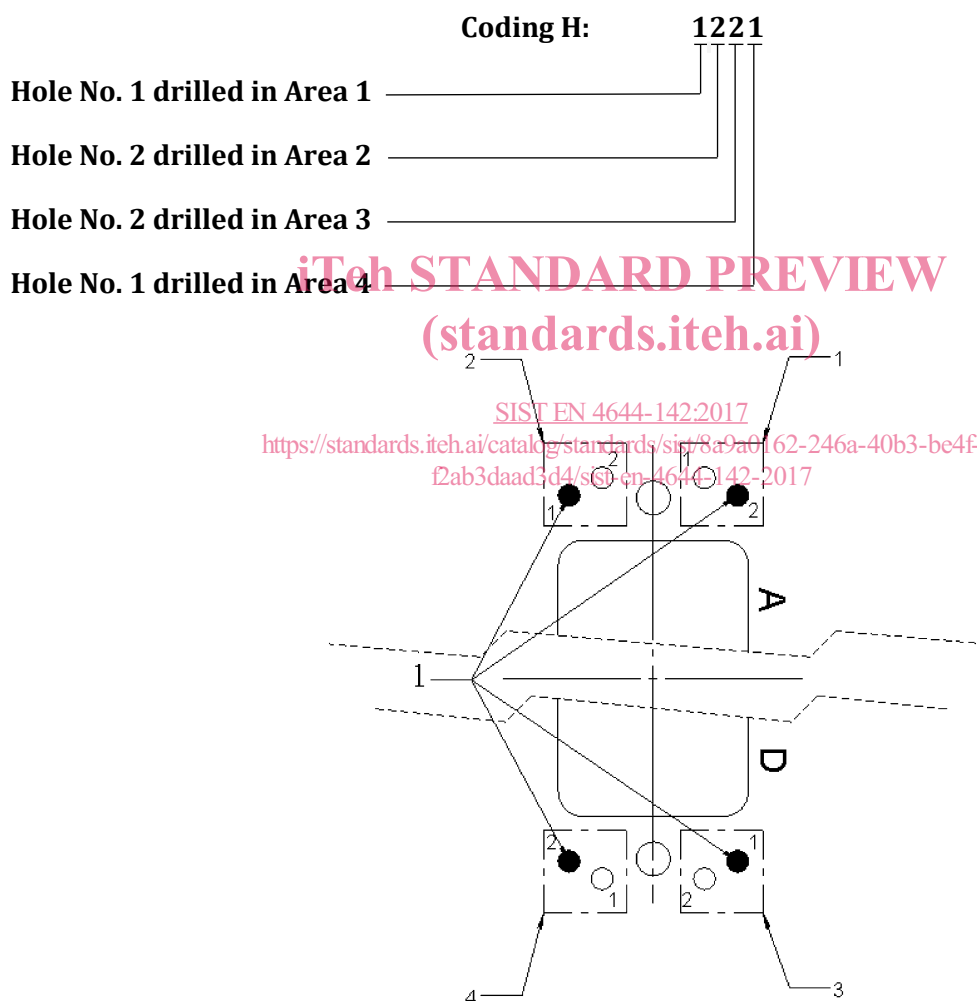
## 4.3 Panel cut-out coding.

When several size 4 connectors are used in the same equipment, a coding is available on the shell to associate the correct shell with the correct panel cut-out.

On the panel cut-out, four area are coded, area 1, 2, 3 and 4 (see Figure 3). For each area, 1 of the 2 holes should be drilled (hole No. 1 or hole No. 2)

Each hole on the panel cut-out corresponds to the use of a coding pin on the shell.

Coding shown on Figure 3 as an example is:



### Key

1 Black holes correspond to holes that should not be machined in the example.

**Figure 3 — Panel front view**