

SLOVENSKI STANDARD
SIST EN 4644-142:2012**01-september-2012**

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

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 - Product standard

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

[SIST EN 4644-142:2012](https://standards.iteh.ai/catalog/standards/sist/168216f-1f6d-480c-8672-77001932c000/sist-en-4644-142-2012)

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 - Norme de produit

Ta slovenski standard je istoveten z: EN 4644-142:2012

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems
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SIST EN 4644-142:2012**en**

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EUROPEAN STANDARD

EN 4644-142

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2012

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 142: Size 4 receptacle for
rack and panel application - Product standard**

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 -
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 - Produktnorm

This European Standard was approved by CEN on 22 July 2011.

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.

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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, 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, Turkey and United Kingdom.



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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 4644-142:2012) 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 November 2012, and conflicting national standards shall be withdrawn at the latest by November 2012.

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, Bulgaria, Croatia, 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, Turkey and the United Kingdom.

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EN 4644-142:2012 (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, operating temperature 175 °C (or 125 °C) continuous.

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*¹⁾

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*¹⁾

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 — Product standard*¹⁾

3 Terminology

See EN 4644-001.

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

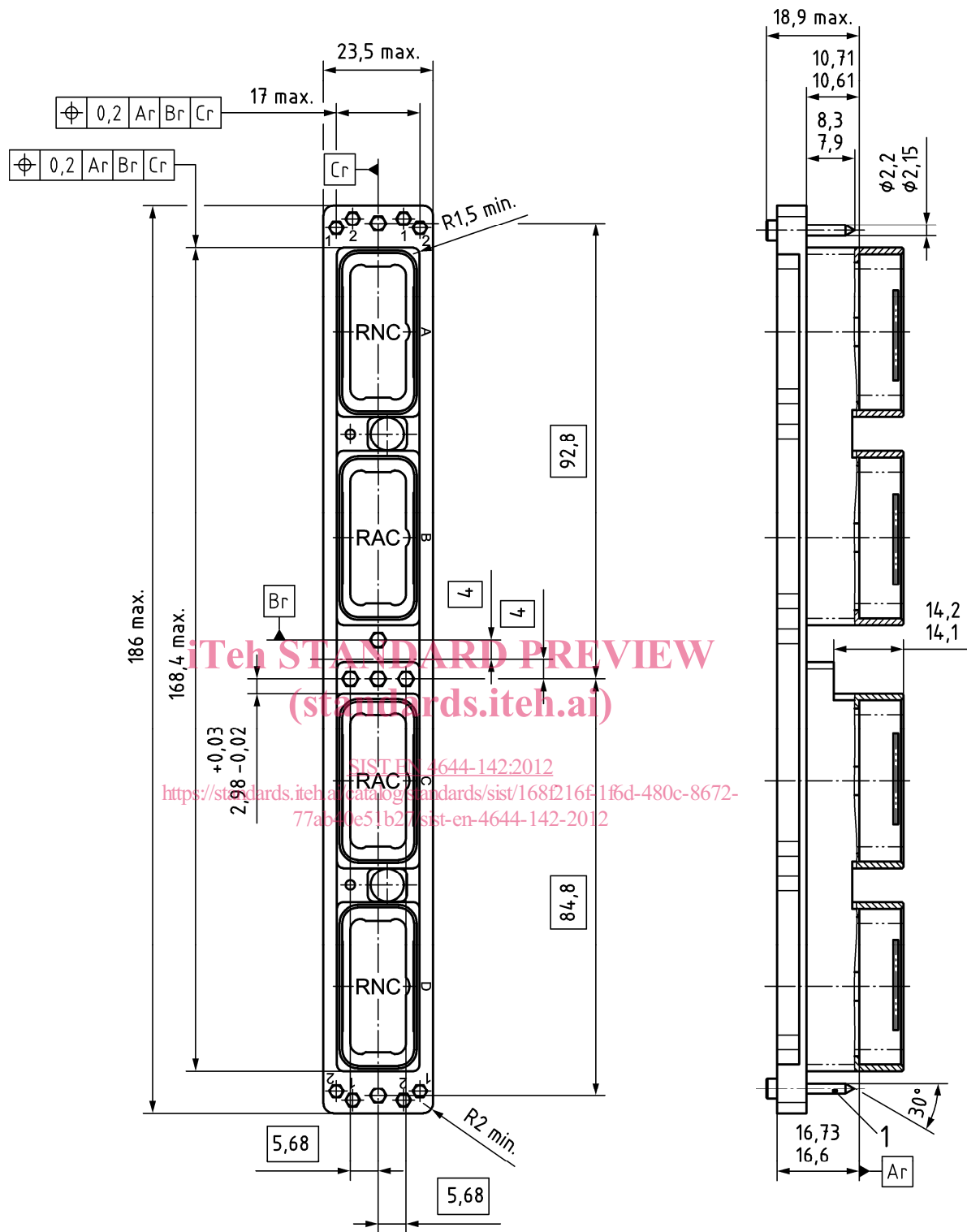
See Figure 1 and Figure 2.

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¹⁾ Published as ASD-STAN Prestandard at the date of publication of this standard by Aerospace and Defence Industries Association of Europe-Standardization (ASD-STAN), (www.asd-stan.org).

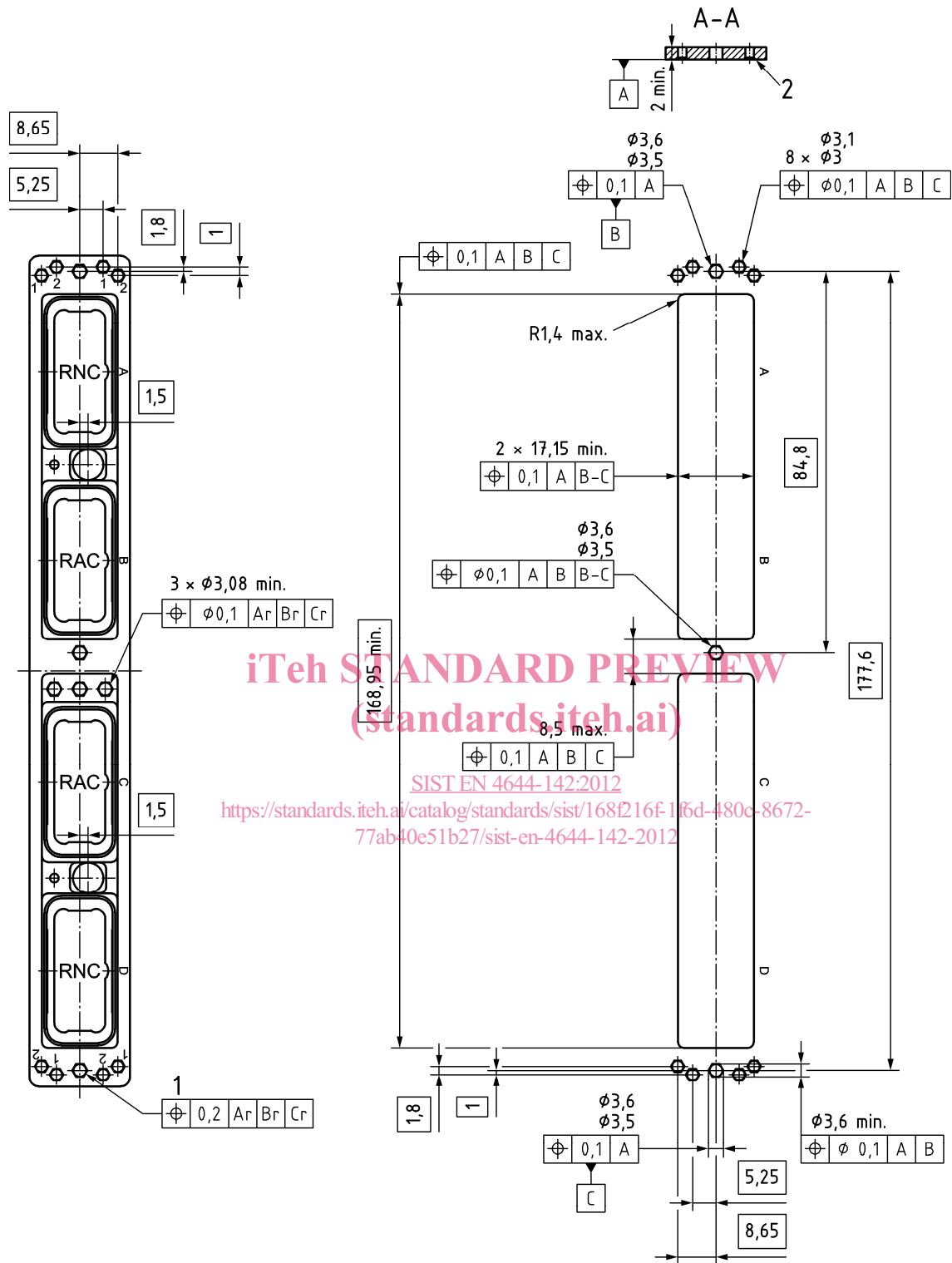


Key

1 Four × coding pin

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

Figure 1



Key

- 1 Two self-locking thread (see housing type in Clause designation for the diameter)
- 2 Chamfer

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

4.2 Mass

80 gram maximum.

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 areas are coded, area 5, 6, 7 and 8 (see Figure 3 and Table 1). For each area, one of the two 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:

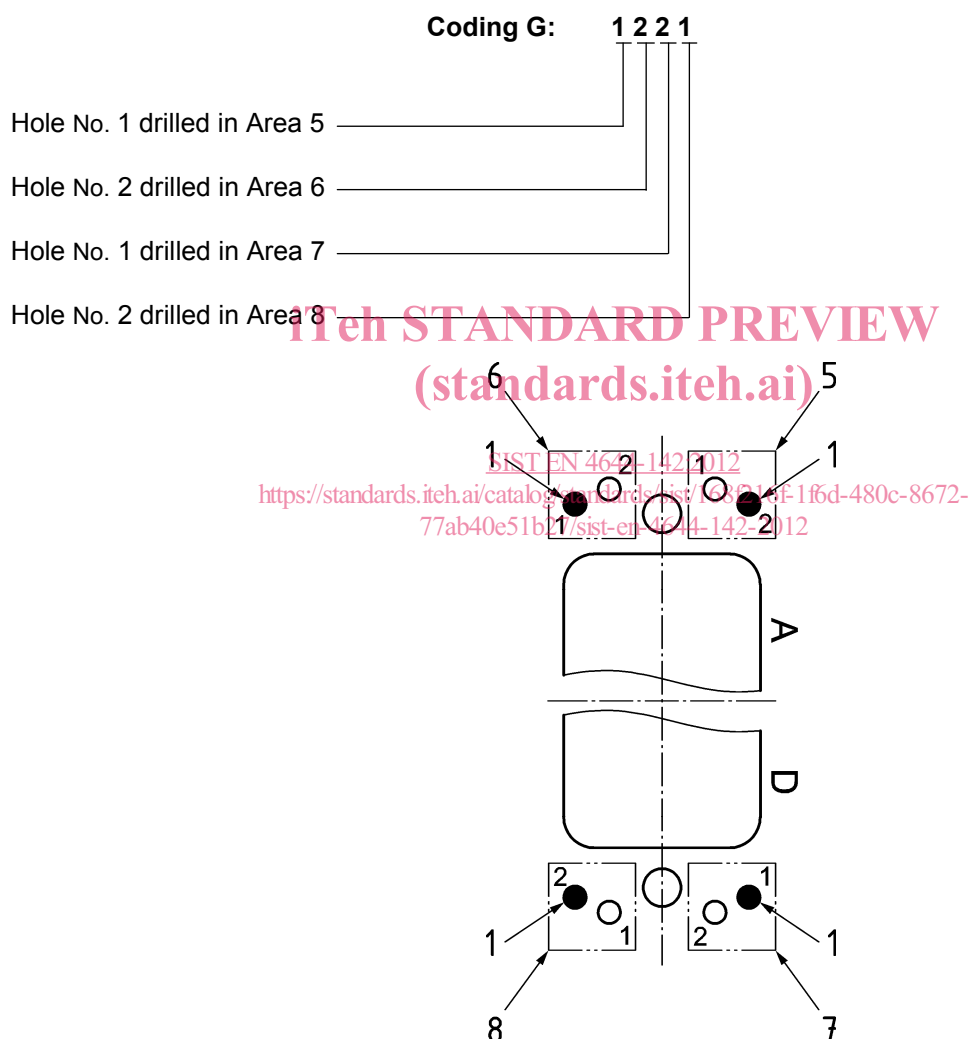


Figure 3