



# SLOVENSKI STANDARD SIST EN 4165-004:2009

01-februar-2009

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Aerospace series - Connectors, electrical, rectangular, modular - Operating temperature  
175°C continuous - Part 004: Stackable mounting receptacle 2 and 4 modules, series 2 -  
Product standard

**STANDARD PREVIEW**

Luft- und Raumfahrt - Elektrischer Rechtecksteckverbinder in modularer Bauweise -  
Betriebstemperatur 175 °C konstant - Teil 004: Anreihsteckdose mit Flansch mit 2 und 4  
Modulen, Serie 2 - Produktnorm

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Série aérospatiale - Connecteurs électriques modulaires - Températures d'utilisation  
175°C continu - Partie 004 : Embase empilable 2 et 4 modules, série 2 - Norme de  
produit

**Ta slovenski standard je istoveten z: EN 4165-004:2007**

### ICS:

49.060 Š^cp \ æš Á^• [ |b \ æ Aerospace electric  
^|\ dã} æ ] !^ { æš Á ã c { ã equipment and systems

**SIST EN 4165-004:2009**

**en,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 4165-004**

April 2007

ICS 49.060

English Version

**Aerospace series - Connectors, electrical, rectangular, modular -  
Operating temperature 175 °C continuous - Part 004: Stackable  
mounting receptacle 2 and 4 modules, series 2 - Product  
standard**

Série aéronautique - Connecteurs électriques modulaires -  
Températures d'utilisation 175 °C continu - Partie 004 :  
Embase empilable 2 et 4 modules, série 2 - Norme de  
produit

Luft- und Raumfahrt - Elektrischer Rechtecksteckverbinder  
in modularer Bauweise - Betriebstemperatur 175 °C  
konstant - Teil 004: Anreihsteckdose mit Flansch mit 2 und  
4 Modulen, Serie 2 - Produktnorm

This European Standard was approved by CEN on 30 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 CEN 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 Management Centre has the same status as the official versions.

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## Foreword

This document (EN 4165-004:2007) 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 October 2007, and conflicting national standards shall be withdrawn at the latest by October 2007.

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, 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.

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**EN 4165-004:2007 (E)****1 Scope**

This standard defines the stackable mounting receptacle series 2, for 2 or 4 modules used in the family of rectangular electrical modular connectors, operating temperature 175 °C continuous. The plugs corresponding to those receptacles are defined in EN 4165-002.

The protective covers corresponding to those receptacles are defined in EN 4165-018.

**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 2424, *Aerospace series – Marking of aerospace products.*

EN 4165-001, *Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 001: Technical specification.*

EN 4165-002, *Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 002: Specification of performance and contact arrangements.*

EN 4165-003, *Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 003: Modules series 2 and series 3 – Product standard.<sup>1)</sup>*

EN 4165-018, *Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 018: Protective cover for receptacle 2 and 4 modules, series 2 and series 3 – Product standard.*

EN 4165-020, *Aerospace series – Connectors, electrical, rectangular, modular – Operating temperature 175 °C continuous – Part 020: Coupling system keyway for receptacle – Product standard.*

**3 Terms and definitions**

For the purposes of this document, the terms and definitions given in EN 4165-001 apply.

**4 Required characteristics**

See Figure 1 and Table 1 for 2 modules.

See Figure 2 and Table 2 for 4 modules.

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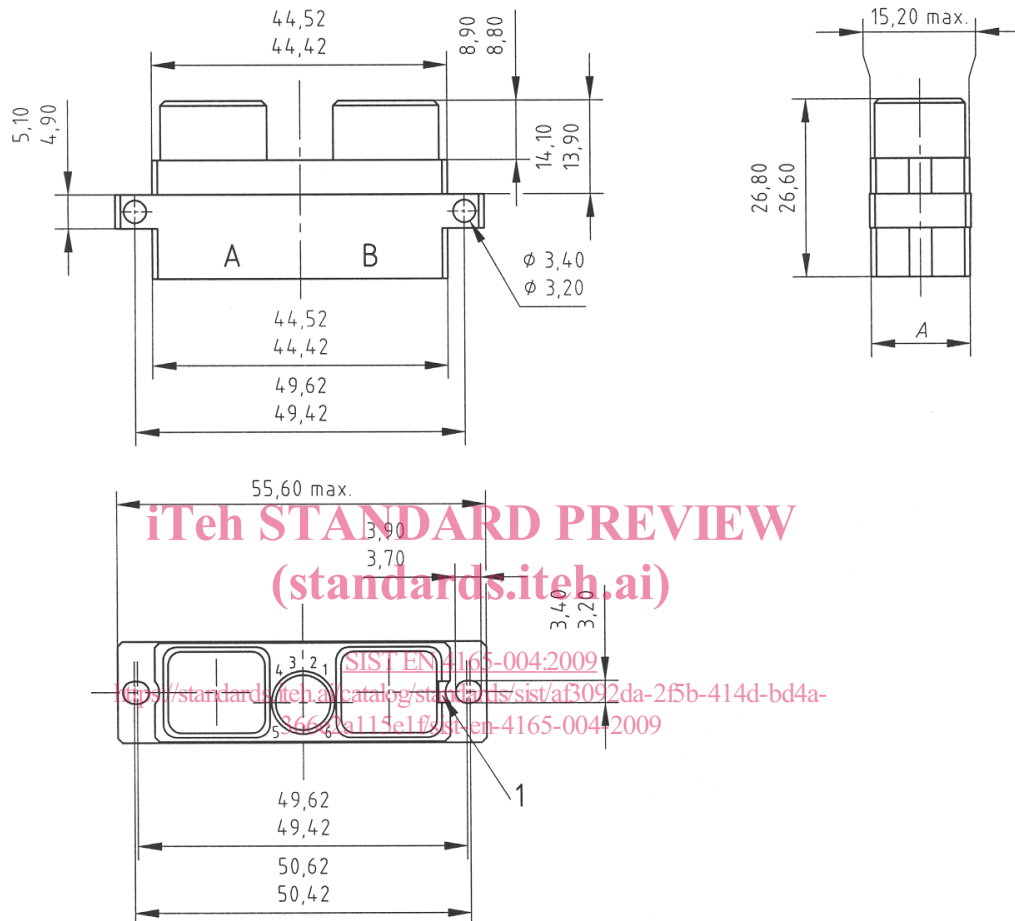
1) Published as AECMA Prestandard at the date of publication of this standard.

## 5 Stackable mounting receptacle, male or female modules

### 5.1 For 2 modules

See EN 4165-003.

Dimensions are in millimetres.



#### Key

- 1 Groove only for class F, W and A

Figure 1

Table 1

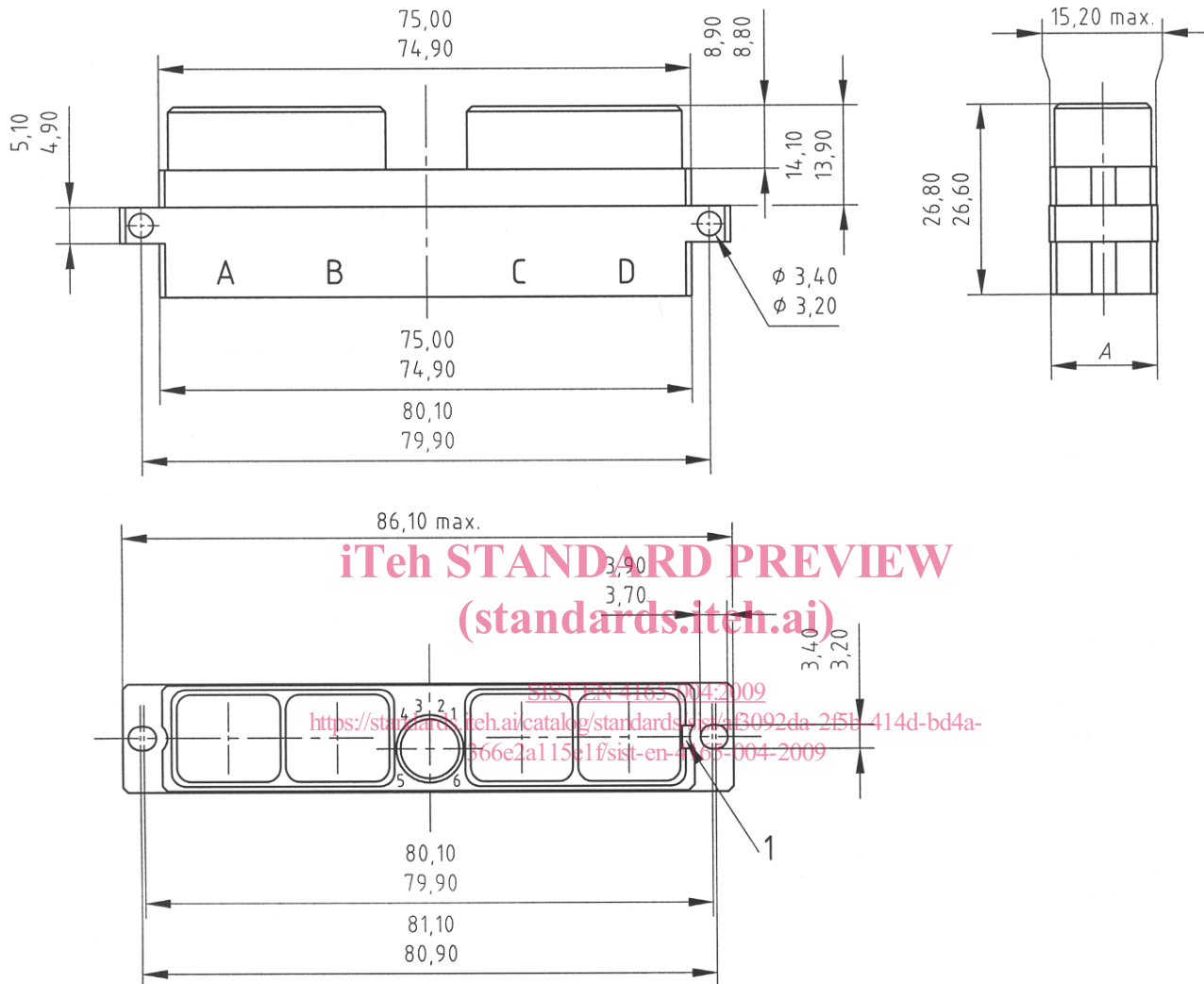
| Classes    | A<br>max. | Mass<br>g |
|------------|-----------|-----------|
| F, W and A | 15,20     | 14,80     |
| J and M    | 16,00     | —         |

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5.2 For 4 modules

See EN 4165-003.

Dimensions are in millimetres.



Key

- 1 Groove only for class F, W and A

Figure 2

Table 2

| Classes    | A max. | Mass g |
|------------|--------|--------|
| F, W and A | 15,20  | 20,60  |
| J and M    | 16,00  | 12,50  |



### 5.3 Receptacle classes

See Table 3.

Table 3

| Classes | Description  |
|---------|--|
| W       | Receptacle with housing (shell) olive drab cadmium plated, aluminium alloy, conductive finish, 500 h resistance to salt mist, maximum operating temperature 175 °C continuous    |
| F       | Receptacle with housing (shell) black nickel plated, aluminium alloy, 96 h resistance to salt mist, maximum operating temperature 175 °C continuous                              |
| J       | Receptacle with housing (shell) olive drab cadmium plated, composite material, conductive finish, 500 h resistance to salt mist, maximum operating temperature 175 °C continuous |
| M       | Receptacle with housing (shell) nickel plated, composite material, conductive finish, 500 h resistance to salt mist, maximum operating temperature 175 °C continuous             |
| A       | Receptacle with housing (shell) black anodised plated, aluminium alloy, non-conductive finish, 48 h resistance to salt mist, maximum operating temperature 175 °C continuous     |

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