



SLOVENSKI STANDARD

SIST EN 4165-003:2016

01-junij-2016

Nadomešča:

SIST EN 4165-003:2008

Aeronavtika - Konektorji, električni, pravokotni, modularni - Stalna delovna temperatura 175 °C - 003. del: Moduli serije 2 in serije 3 - Standard za proizvod

Aerospace series - Connectors, electrical, rectangular, modular - Operating temperature 175 °C continuous - Part 003: Modules series 2 and series 3 - Product standard

Luft- und Raumfahrt - Elektrischer Rechtecksteckverbinder in modularer Bauweise - Betriebstemperatur 175 °C konstant - Teil 003: Modul Serie 2 und Serie 3 - Produktnorm

Série aérospatiale - Connecteurs électriques rectangulaires modulaires - Température d'utilisation 175 °C continu - Partie 003: Modules série 2 et série 3 - Norme de produit

Ta slovenski standard je istoveten z: EN 4165-003:2016

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

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4165-003

March 2016

ICS 49.060

Supersedes EN 4165-003:2008

English Version

**Aerospace series - Connectors, electrical, rectangular,
modular - Operating temperature 175 °C continuous - Part
003: Modules series 2 and series 3 - Product standard**

Série aérospatiale - Connecteurs électriques
rectangulaires modulaires - Température d'utilisation
175 °C continu - Partie 003 : Modules série 2 et série 3
- Norme de produit

Luft- und Raumfahrt - Elektrischer
Rechtecksteckverbinder in modularer Bauweise -
Betriebstemperatur 175 °C konstant - Teil 003: Modul
Serie 2 und Serie 3 - Produktnorm

This European Standard was approved by CEN on 5 March 2015.

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, 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 United Kingdom.



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 4165-003:2016) 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 September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

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 4165-003:2008.

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.

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EN 4165-003:2016 (E)**1 Scope**

This European Standard specifies the characteristics of module in the family of modular connector coupled by central threaded coupling, or rack and panel or push-pull latching mechanism. For contacts and fillers plug associated see EN 4165-002.

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

EN 3155-070, *Aerospace series — Electrical contacts used in elements of connection — Part 070: Contacts, electrical, male, type A, crimp, class S — Product standard*

EN 3155-071, *Aerospace series — Electrical contacts used in elements of connection — Part 071: Contacts, electrical, female, type A, crimp, class S — Product standard*

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*

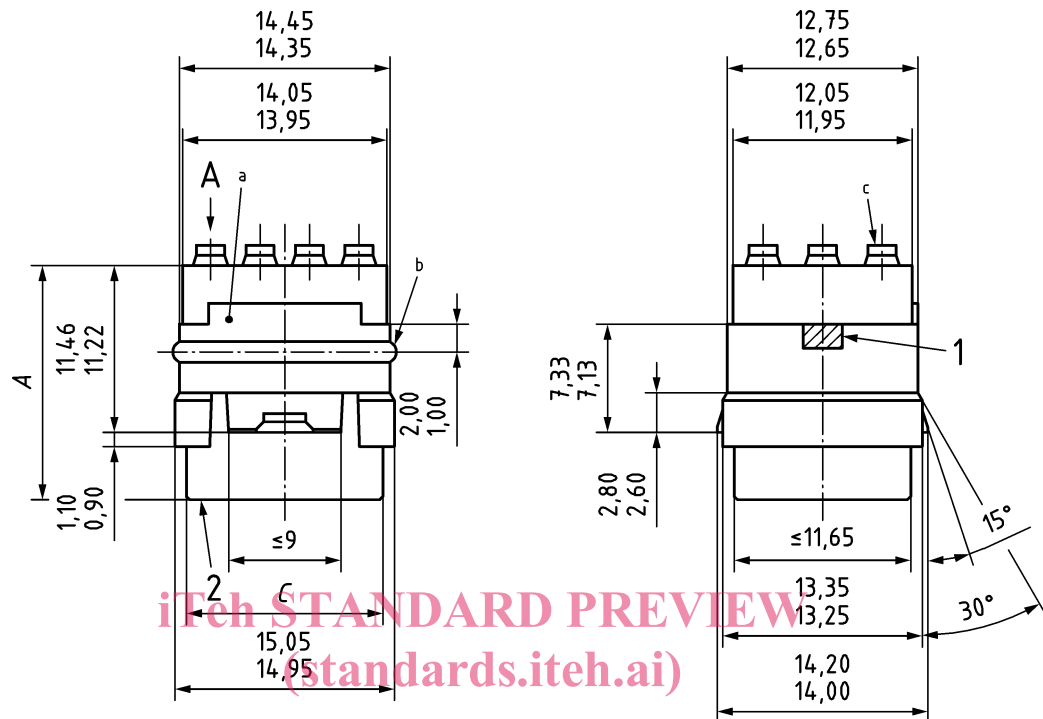
3 Terms and definitions

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

4 Required characteristics

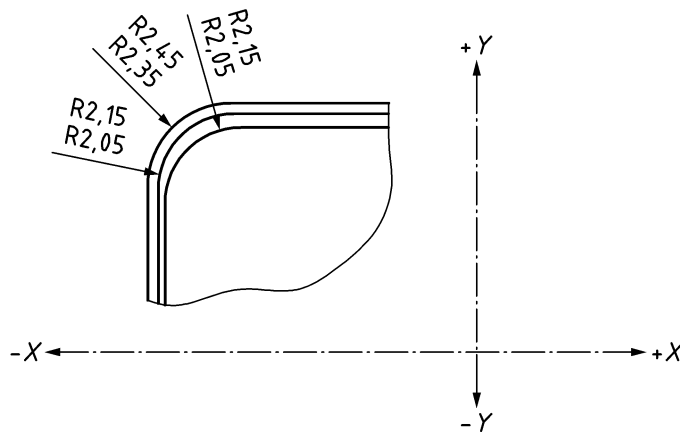
4.1 Male module interface dimensions – Series 2 and series 3

See Figure 1 and Table 1. Dimensions are in millimetres.



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Key

- | | |
|-------------------------------------|--------------------------------------|
| 1 Zone of contact (module grounded) | b Optional design for sealed version |
| 2 Grommet | c Interfacial seal, see 4.5. |
| a Polarizing keys, see Figure 5. | |

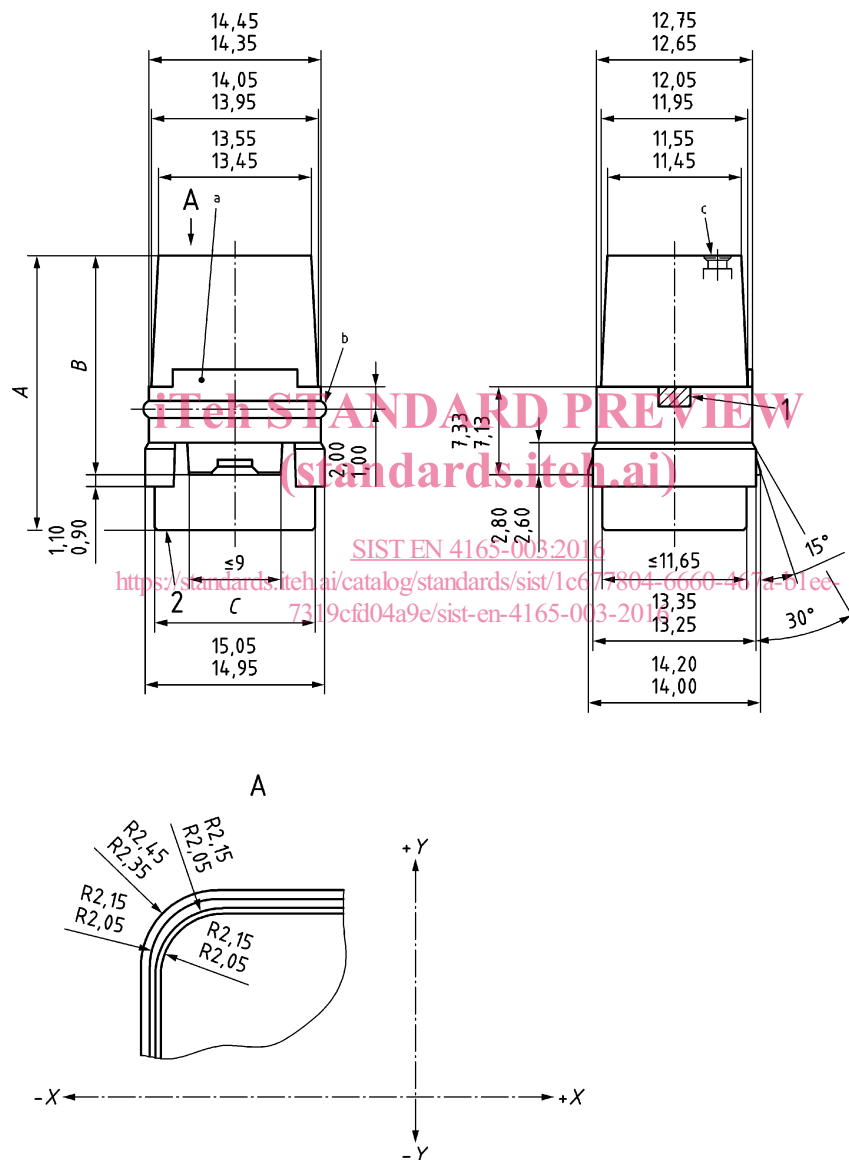
Figure 1 — Male module series 2 and 3

Table 1 — Male module series 2 and 3 dimensions

Size	A	C	Mass without contacts g max.
22-20-16-12	16,46	13,35	3,0
8	18,70	11,65	2,3

4.2 Female module interface dimensions – Series 2 and series 3

See Figure 2 and Table 2. Dimensions are in millimetres.



Key

- 1 Zone of contact (module grounded)
- 2 Grommet
- a Polarizing keys, see Figure 5.
- b Optional design for sealed version
- c Socket contact cavity, see 4.5.

Figure 2 — Female series 2 and series 3 module

Table 2 — Female module series 2 and series 3 dimensions

Size	A max.		B		C max.
	series 2	series 3	series 2	series 3	
22-20-16-12	22,40	30,96	17,16 to 17,40	25,72 to 25,96	13,35
8	33,20				11,65

4.3 Male and female module size 08 contact – Grommet design

For series 2 and series 3.

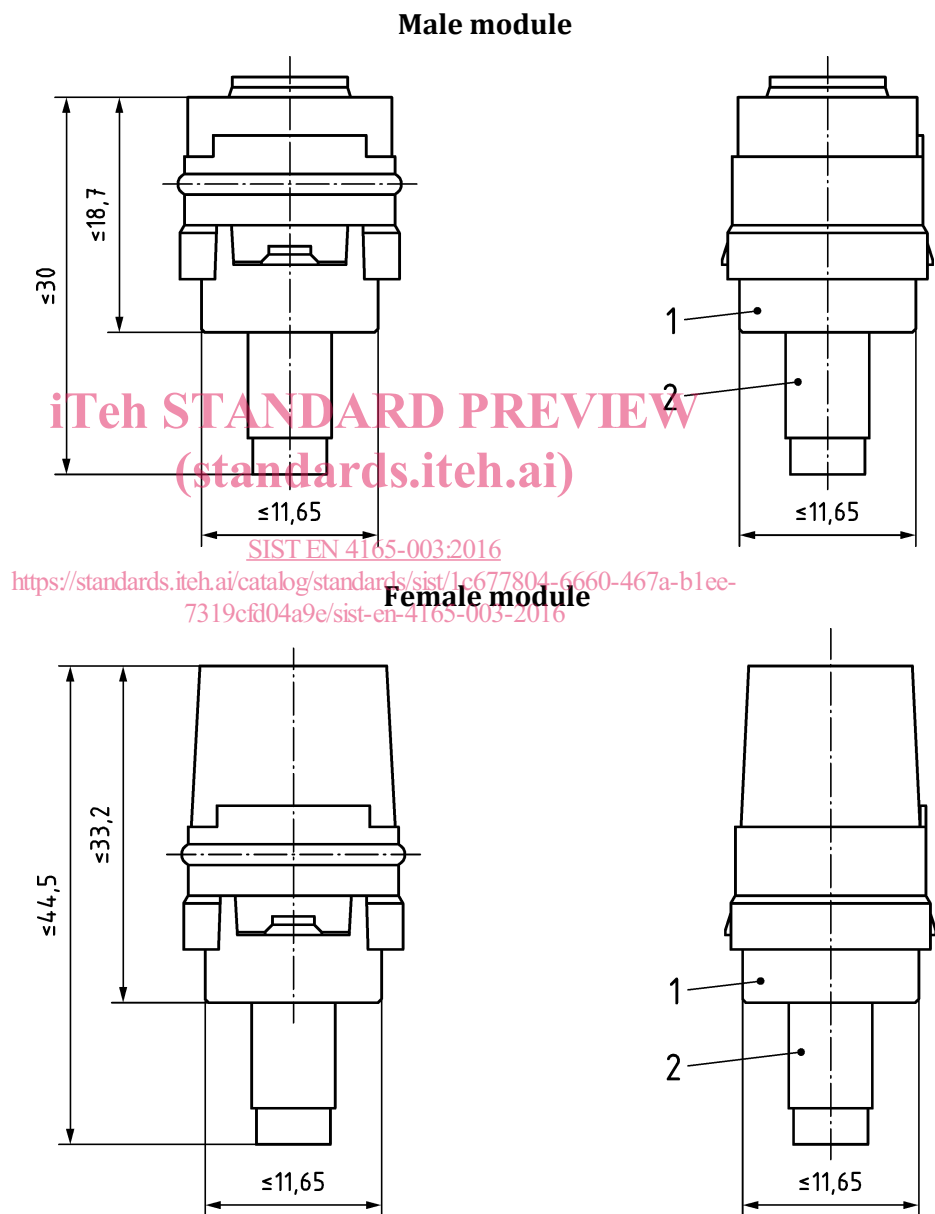


Figure 3 — Male and female module size 08