

# SVENSK STANDARD

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### **Flyg- och rymdteknik – Rektangulära modulära elektriska kontaktdon – Kontinuerlig drifttemperatur 175 °C – Del 001: Teknisk specifikation**

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



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The European Standard EN 4165-001:2015/AC:2017 has the status of a Swedish Standard. This document contains the official version of EN 4165-001:2015/AC:2017.

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EUROPEAN STANDARD

EN 4165-001

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2015

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Supersedes EN 4165-001:2007

English Version

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

Série aérospatiale - Connecteurs électriques  
rectangulaires modulaires - Température d'utilisation  
175 °C continu - Partie 001 : Spécification technique

Luft- und Raumfahrt - Elektrischer  
Rechtecksteckverbinder in modularer Bauweise -  
Betriebstemperatur 175 °C konstant - Teil 001:  
Technische Lieferbedingungen

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.

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This document consolidates EN 4165-001:2015 and the corrigendum EN 4165-001:2015/AC:2017.



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 4165-001:2015) 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 April 2016, and conflicting national standards shall be withdrawn at the latest by April 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 4165-001:2007.

This document includes the corrigendum EN 4165-001:2015/AC:2017 which adds missing information next to Figure 36 and Figure 38 regarding correct contact EN 3155-082 to be used.

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.

## 1 Scope

This European standard specifies the general characteristics, the conditions for qualification, acceptance and quality assurance, as well as the test programs and groups for rectangular connectors with one or multiple removable modules, intended for use in a temperature range from –55 °C to 175 °C continuous.

This family of connectors is particularly suitable for aeronautic use in zones of severe environmental conditions on board aircraft, applying EN 2282.

The maximum in-service temperature can be limited by maximum temperature of contacts.

## 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 2282, *Aerospace series — Characteristics of aircraft electrical supplies*

EN 2591-100<sup>1)</sup>, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 001: General*

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

EN 3155-008, *Aerospace series — Electrical contacts used in elements of connection — Part 008: Contacts, electrical, male, type A, crimp, class S — Product standard*

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 3155-082, *Aerospace series — Electrical contacts used in elements of connection — Part 082: Contacts, electrical, female, type A, crimp, class S — Product standard*<sup>2)</sup>

EN 3197, *Aerospace series — Design and installation of aircraft electrical and optical interconnection systems*

EN 3909, *Aerospace series — Test fluids and test methods for electric components and sub-assemblies*

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*

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

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<sup>1)</sup> And all parts quoted in this European Standard.

<sup>2)</sup> Published as ASD-STAN Prestandard at the date of publication of this European Standard (<http://www.asd-stan.org/>).