



NSAI
Standards

Irish Standard
I.S. EN 3682-001:2013

Aerospace series - Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous
- Part 001: Technical specification

I.S. EN 3682-001:2013

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SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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English Version

**Aerospace series - Connectors, plug and receptacle, electrical,
rectangular, interchangeable insert type, rack to panel, operating
temperature 150 °C continuous - Part 001: Technical
specification**

Série aérospatiale - Connecteurs électriques rectangulaires
rackables, fiches et embases, à inserts interchangeables,
température d'utilisation 150 °C continu - Partie 001:
Spécification technique

Luft- und Raumfahrt - Elektrischer Rechtecksteckverbinder,
freie und feste Bauform, auswechselbare Isolierkörper,
Gestell-Einschubsteckverbinder, Betriebstemperatur 150
°C konstant - Teil 001: Technische Lieferbedingungen

This European Standard was approved by CEN on 8 May 2013.

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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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Foreword

This document (EN 3682-001:2013) 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of an identical text or by endorsement, at the latest by March 2014, and conflicting national standards shall be withdrawn at the latest by March 2014.

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 3682-001:2006.

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.

Introduction

This family of connectors is derived from MIL-C-83527 with which it is intermateable and interchangeable. It offers a comprehensive range of contact arrangements. The plug is fitted with a grounding spring system which is replaceable in the field. It is particularly for use **on rack application** in zones of severe environmental conditions on board aircraft, applying EN 2282.

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 connectors intended for use in a temperature range from – 65 °C to 150 °C continuous.

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 2267-002, *Aerospace series — Cables, electrical, for general purpose — Operating temperatures between – 55 °C and 260 °C — Part 002: General*

EN 2591 (all parts), *Aerospace series — Elements of electrical and optical connection — Test methods*

EN 3155 (all parts), *Aerospace series — Electrical contacts used in elements of connection*

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

EN 3682 (all parts), *Aerospace series — Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous*

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

EN 4529-002, *Aerospace series — Elements of electrical and optical connection — Sealing plugs — Part 002: Index of product standards*

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

MIL-C-83527 (all parts), *Connectors, plug and receptacle, electrical, rectangular multiple insert type, rack to panel, environment resisting, 150 °C total continuous operating temperature*¹⁾

MIL-L-15719, (Amendment 3), *Military specification, lubricating grease (High temperature, electric motor, ball and roller bearings)*¹⁾

MIL-STD-454, *Military standard — Standard General Requirements for Electronic Equipment*¹⁾

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