



NSAI
Standards

Irish Standard
I.S. EN 4701-001:2014

Aerospace series - Connectors, optical,
rectangular, modular, operating temperature
125 °C, for EN 4531-101 contacts - Part 001:
Technical specification

I.S. EN 4701-001:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

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NORME EUROPÉENNE

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English Version

**Aerospace series - Connectors, optical, rectangular, modular,
operating temperature 125 °C, for EN 4531-101 contacts - Part
001: Technical specification**

Série aérospatiale - Connecteurs optiques rectangulaires,
modulaires, température d'utilisation 125 °C, pour contacts
EN 4531-101 - Partie 001 : Spécification technique

Luft- und Raumfahrt - Optischer Rechtecksteckverbinder in
modularer Bauweise, Betriebstemperatur 125 °C, für EN
4531-101-Kontakte - Teil 001: Technische
Lieferbedingungen

This European Standard was approved by CEN on 28 June 2014.

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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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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 4701-001:2014) 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of an identical text or by endorsement, at the latest by June 2015, and conflicting national standards shall be withdrawn at the latest by June 2015.

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.

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EN 4701-001:2014 (E)

Introduction

This family of fibre optic connectors is derived from EN 4165-001 with EN 4531-101 optical contacts. It is suitable for use on aerospace on board applications. It provides easy access for optical contact end face cleaning.

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 EN 4165 rectangular connectors with removable optical modules using EN 4531-101 contacts.

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

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

EN 4529 (all parts), *Aerospace series — Elements of electrical and optical connection — Sealing plugs*

EN 4531 (all parts), *Aerospace series — Connectors, optical, circular, single and multipin, coupled by threaded ring — Flush contacts*

EN 4165 (all parts), *Aerospace series — Connectors, electrical, rectangular, modular — Operating temperature 175 °C continuous*

EN 4701-002, *Aerospace series — Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4531-101 contacts — Part 002: Specification of performance*

EN 4701-003, *Aerospace series — Connectors, optical, rectangular, modular, operating temperature 125 °C, for EN 4531-101 contacts — Part 003: Module series 2 — Product standard*

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

SAE-AS-81969/14-04, *Installing and removal tools, connector electrical contact, type III, class 2, composition B* ¹⁾

TR 4684, *Aerospace series — Electrical and Optical technology and component definitions* ²⁾

3 Terms and definitions

For the purposes of this document, the terms and definitions given in TR 4684 apply.

1) Published by: SAE National (US) Society of Automotive Engineers <http://www.sae.org/>

2) In preparation at the date of publication of this standard.

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