

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

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NSAI T +353 1 807 3800 Sales:

 1 Swift Square,
 F +353 1 807 3838
 T +353 1 857 6730

 Northwood, Santry
 E standards@nsai.ie
 F +353 1 857 6729

 Dublin 9
 W NSAl.ie
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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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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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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of an identical text or by endorsement, at the latest by June 2015, and conflicting national standards shall be withdrawn at the latest by June 2015.

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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.

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



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