

Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures — 65 °C to 125 °C (cable dependent) — Flush contacts

Part 001: Technical specification

ICS 49.060

National foreword

This British Standard is the UK implementation of EN 4626-001:2008.

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A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

**Aerospace series - Connectors, optical, rectangular,
multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter
ferrule - Operating temperatures - 65 °C to 125 °C (cable
dependent) - Flush contacts - Part 001: Technical specification**

Série aérospatiale - Connecteurs, optique, rectangulaire, à
contacts multiples, rackables, cavité Quadrax, ferrule
diamètre 2,5 mm - Température d'utilisation - 65 °C à 125
°C (selon câble) - Contacts affleurants - Partie 001:
Spécification technique

Luft- und Raumfahrt - Optische Rechtecksteckverbinder,
Quadrax-Kontaktkammer, Durchmesser 2,5 mm Ferrule -
Betriebstemperaturen - 65 °C bis 125 °C (vom Kabel
abhängig) - Bündige Kontakte - Teil 001: Technische
Lieferbedingungen

This European Standard was approved by CEN on 28 December 2007.

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Foreword

This document (EN 4626-001:2008) 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of an identical text or by endorsement, at the latest by February 2009, and conflicting national standards shall be withdrawn at the latest by February 2009.

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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Introduction

This family of fibre optic contact sub-assemblies are suitable for use in ARINC 600 connectors with size 8 Quadrax cavities in aerospace onboard applications. It provides easy access for optical contact end face cleaning.

1 Scope

This standard specifies the general characteristics, the conditions for qualification, acceptance and quality assurance, as well as the test programs and groups for fibre sub-assembly contact in rack and panel connectors, intended for use in a temperature range from – 65 °C to 125 °C continuous (cable dependent).

This standard specifies a pair of adaptors to fit with standard Quadrax cavities and EN 4531-101 optical contact.

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 2591-100*, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General*

EN 3197, *Aerospace series — Installation of aircraft electrical and optical interconnection systems* ¹⁾

EN 4531-101, *Aerospace series — Connectors, optical, circular, single and multipin, coupled by threaded ring — Flush contacts — Part 101: Optical contact for EN 4641-100 cable – 55 °C to 125 °C — Product standard* ¹⁾

EN 4626-002, *Aerospace series — Connectors, optical, rectangular, multicontact, rack and panel, Quadrax cavity, 2,5 mm diameter ferrule — Operating temperatures – 65 °C to 125 °C (cable dependent) — Flush contacts — Part 002: Specification of performance and contact arrangements*

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

ARINC 600, *Air transport avionics — Equipment interfaces* ²⁾

3 Terms and definitions

For the purposes of this standard, the terms, definitions and abbreviations given in EN 2591-100 apply.

* And all its parts quoted in this standard.

1) Published as ASD Prestandard at the date of publication of this standard.

2) Published by: Aeronautical Radio, Inc. 2551 Riva road, Annapolis, Maryland 21401.