

**Aerospace series - Connector, electrical and optical,
rectangular, modular, rectangular inserts, operating
temperature 175 °C (or 125 °C) continuous - Part 002:
Specification of performance and contact arrangements**

EESTI STANDARDI EESSÕNA

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ICS 49.060; 49.090

English Version

Aerospace series - Connector, electrical and optical,
rectangular, modular, rectangular inserts, operating temperature
175 °C (or 125 °C) continuous - Part 002: Specification of
performance and contact arrangements

Série aérospatiale - Connecteur, électrique et optique,
rectangulaire, modulaire, à inserts rectangulaires,
température de fonctionnement 175 °C (ou 125 °C) continu
- Partie 002: Spécification de performances et
arrangements de contacts

Luft- und Raumfahrt - Elektrische und optische
Rechtecksteckverbinder, modular, rechteckige
Kontaktsteinsätze, Dauerbetriebstemperatur 175 °C (oder
125 °C) konstant - Teil 002: Leistungsdaten und
Kontaktanordnungen

This European Standard was approved by CEN on 6 August 2011.

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Foreword

This document (EN 4644-002:2012) 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of an identical text or by endorsement, at the latest by November 2012, and conflicting national standards shall be withdrawn at the latest by November 2012.

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1 Scope

This European Standard specifies the common conditions for rectangular electrical modular connectors for receptacles and plugs with interchangeable modules and a continuous operating temperature of 175 °C (or 125 °C).

Contact arrangements for fibre optic contacts are described in EN 4639-002.

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

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

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

EN 4639-002, *Aerospace series — Connectors, optical, rectangular, modular, multicontact, 1,25 diameter ferrule, with removable alignment sleeve holder — Part 002: List of product standards*

EN 4644-003, *Aerospace series — Connector, electrical and optical, rectangular, modular, rectangular inserts, operating temperature 175 °C (or 125 °C) continuous — Part 003: Rectangular inserts — Product standard*

EN 4644-011, *Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 011: Male housing size 1, class A, C and E — Product standard*

EN 4644-012, *Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 012: Female housing size 1, class A, C and E — Product standard*

EN 4644-013, *Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 013: Male housing size 1 with ground blocks, class B and F — Product standard*

EN 4644-014, *Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 014: Female housing size 1 with ground blocks, class B and F — Product standard*

EN 4644-021, *Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 021: Male housing size 2 without mounting holes; class A, C and E — Product standard*

EN 4644-022, *Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 022: Male housing size 2 with mounting holes; class A, C and E — Product standard*

EN 4644-023, *Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 023: Male housing size 2 with ground block; class A, C and E — Product standard*

EN 4644-024, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 024: Female housing size 2 class A,C and E — Product standard

EN 4644-025, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 025: Female housing size 2 with flange, without ground block; class A, C and E — Product standard

EN 4644-026, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 026: Female housing size 2 with ground block class B and F — Product standard

EN 4644-131, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 131: Male housing size 3 class A and C — Product standard

EN 4644-132, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 132: Female housing size 3 class A and C — Product standard

EN 4644-133, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 133: Female housing size 3 with float mount class A and C — Product standard

EN 4644-141, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 141: Male housing size 4 class A and C — Product standard

EN 4644-142, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C (or 125°C) continuous — Part 142: Female housing size 4 class A and C — Product standard

EN 4644-201, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C continuous — Part 201: Locking and polarising system for housing size 2 — Product standard

EN 4644-202, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C continuous — Part 202: Polarising hardware — Product standard

EN 4644-203, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C continuous — Part 203: Dust caps — Product standard

EN 4644-204, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C continuous — Part 204: tools — Product standard

EN 4644-301, Aerospace series — Connectors, electrical and optical, rectangular modular — Operating temperature 175°C continuous — Part 301: Cable outlet — Product standard

TR 4654, Aerospace series — Connectors, electrical - PrEN EPX derivated products — Technical report

3 Description of models

Modular electrical rectangular, rack and panel or disconnect connectors, environmental resistant with four shells sizes 1, 2, 3 and 4, crimp contacts class R.