



SLOVENSKI STANDARD
SIST EN 3708-002:2009
01-september-2009

Aeronavtika - Modularni medsebojno povezljivi sistemi - Razdelilni moduli - 002.
del: Specifikacija lastnosti

Aerospace series - Modular interconnection systems - Terminal junction systems - Part
002: Performance specification

Luft- und Raumfahrt - Verteilersysteme in modularer Bauweise - Verteilermodule - Teil
002: Leistungsdaten

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Série aérospatiale - Systèmes d'interconnexions modulaires - Barrettes de raccordement
- Partie 002: Spécification de performances

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Ta slovenski standard je istoveten z: EN 3708-002:2006

ICS:

49.060 Štejni sistemski napajalniki in oprema za letalstvo in vesolje
Aerospace electric equipment and systems

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3708-002

May 2006

ICS 49.060

English Version

Aerospace series - Modular interconnection systems - Terminal junction systems - Part 002: Performance specification

Série aérospatiale - Systèmes d'interconnexions
modulaires - Barrettes de raccordement - Partie 002 :
Spécification de performances

Luft- und Raumfahrt - Verteilersystem in modularer
Bauweise - Verteilermodule - Teil 002: Leistungsdaten

This European Standard was approved by CEN on 16 March 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Foreword

This European Standard (EN 3708-002:2006) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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 2006, and conflicting national standards shall be withdrawn at the latest by November 2006.

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.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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EN 3708-002:2006 (E)**1 Scope**

This standard specifies the general characteristics of terminal junction systems for modular interconnection systems in accordance with EN 3708-001, including versions with sealed or unsealed modules, the interconnection diagrams of which may be different and defined in the product standards.

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 2083, *Aerospace series — Copper or copper alloy conductors for electrical cables — Product standard.*

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

EN 2591-209, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 209: Current temperature derating.*

EN 3155-016, *Aerospace series — Electrical contacts used in elements of connection — Part 016: Contacts, electrical, male, type A, crimp, class S — Product standard.*¹⁾

EN 3708-001, *Aerospace series — Modular interconnection systems — Terminal junction systems — Part 001: Technical specification.*

EN 4008-003, *Aerospace series — Elements of electrical and optical connection — General accessories and tooling — Part 003: Filler plugs for contacts used in elements of electrical connection.*²⁾

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3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 2591-100 and EN 3708-001 apply.

4 Operating conditions**4.1 Authorized cables**

The performance of modular interconnection systems shall be guaranteed on cables the dimensions of which are given in Table 1, using the cabling accessories and tools given in the product standards.

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

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

Table 1

Contact size	External diameter of cables	
	mm	
	min.	max.
22	0,72	1,37
20	0,85	2,10
16	1,20	2,62
12	1,90	4,01

4.2 Required characteristics

4.2.1 Electrical requirements

- Insulation resistance at ambient temperature: 5 000 MΩ;
- Voltage proof test: 1 500 V r.m.s., at sea level, 50 Hz;
- Nominal allowable intensity according to contacts: the nominal allowable intensity at extreme temperature in contacts (175 °C) shall depend on their size and the cable used according to Table 2.

Table 2

Contact size	Section mm ²		Conductor size		Nominal intensity A
	min.	max.	Code ^a	AWG ^b	
22	0,15	0,38	001, 002, 004	26, 24, 22	5
20	0,21	0,93	002, 004, 006, 010	24, 22, 20, 18	7,5
16	0,60	1,34	006, 010, 012	20, 18, 16	13
12	1,91	3,18	020, 030	14, 12	23

^a See EN 2083.
^b American Wire Gauge

Warming due to the passing current shall not cause the maximum temperature to be exceeded. See EN 2591-209.

4.2.2 Climatic category

– 55 °C to 175 °C

5 Contacts

See EN 3155-016.

6 Filler plugs

See EN 4008-003.

7 Technical specification

See EN 3708-001.