



SLOVENSKI STANDARD SIST EN 3716-002:2009

01-julij-2009

**Aeronavtika - Konektorji, enosmerni, triaksialni, za digitalni prenos podatkov - 002.
del: Pogoji uporabe in seznam standardov za proizvod**

Aerospace series - Connectors, single-way with triaxial interface, for transmission of digital data - Part 002: Conditions of use and list of product standards

Luft- und Raumfahrt - Steckverbinder, triaxial für digitale Datenübertragung in einer Richtung - Teil 002: Verwendungsbedingungen und Liste der Produktnormen

Série aérospatiale - Connecteur, monovoie, avec interface triaxiale, pour transmission de données numériques - Partie 002 : Conditions d'utilisation et liste des normes de produits

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Ta slovenski standard je istoveten z: EN 3716-002:2006

ICS:

49.060 Štejni aparati in oprema za letalstvo in zrakoplovstvo
Aerospace electric equipment and systems

SIST EN 3716-002:2009

en,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3716-002

May 2006

ICS 49.060

English Version

**Aerospace series - Connectors, single-way with triaxial interface,
for transmission of digital data - Part 002: Conditions of use and
list of product standards**

Série aérospatiale - Connecteur, monovoie, avec interface triaxiale, pour transmission de données numériques - Partie 002 : Conditions d'utilisation et liste des normes de produits

Luft- und Raumfahrt - Steckverbinder, triaxial für digitale Datenübertragung in einer Richtung - Teil 002: Verwendungsbedingungen und Liste der Produktnormen

This European Standard was approved by CEN on 20 February 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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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard (EN 3716-002:2006) 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 3716-002:2006 (E)**1 Scope**

This standard specifies the conditions of use common to single-way connectors with triaxial interface for transmission of digital data according to EN 3716-001 and gives the list of 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 3375-003, *Aerospace series — Cables, electrical, for signal data transmissions — Part 003: Cable, bifilar, double-braid — Product standard.* ¹⁾

EN 3375-004, *Aerospace series — Cables, electrical, for signal data transmissions — Part 004: Cable, bifilar, single-braid — Product standard.* ¹⁾

EN 3375-005, *Aerospace series — Cables, electrical, for signal data transmissions — Part 005: Cable, bifilar, double-braid, high immunity — Product standard.* ¹⁾

EN 3716-001*, *Aerospace series — Connector, single-way, with triaxial interface for transmission of digital data — Part 001: Technical specification.*

MIL-STD-1553B, *Digital time division command/Response multiplex data bus.* ²⁾

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3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 3716-001 apply.

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4 Conditions of use**4.1 Cable permitted**

- EN 3375-003
- EN 3375-004
- EN 3375-005

4.2 Service characteristics**4.2.1 Electrical conditions**

Those for digital transmissions, particularly those corresponding to standard MIL-STD-1553B

Insulation resistance at ambient temperature: 5 000 MΩ

Voltage strength at sea level: 900 V r.m.s.

Voltage strength at altitude: 200 V r.m.s. at 4,7 kPa

* And all parts quoted.

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

2) Published by: Department of Defense (DOD), The Pentagon, Washington D.C. 20301, USA.

4.2.2 Climatic conditions

Service temperature:

$T_{\min.}$: - 65 °C

$T_{\max.}$: 150 °C

Salt spray: 500 h

Fluid resistance: see EN 3716-001

4.2.3 Mechanical conditions

Mechanical endurance: 500 operations

5 Product standards

Solder receptacle (with or without braid connection)	EN 3716-003
Solder plug (with or without braid connection)	EN 3716-004
Crimp receptacle	EN 3716-005
Crimp plug	EN 3716-006
Crimp receptacle (without braid connection)	EN 3716-007
Flight cap for plug	EN 3716-008
Flight cap for receptacle	EN 3716-009

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6 Keying

Not applicable

7 Contacts

The central contact is not removable after assembly.

8 Rear accessories

Not applicable

9 Tooling

Not applicable. See Clause 7 above.