



SLOVENSKI STANDARD SIST EN 3716-006:2009

01-september-2009

5 YfcbUj h_U! ?cbY_lcf 1Z Ybcga Yfb]žf]U_g]UbjžnUX][]HUb]dfYbcg'dcXUh_cj `! '\$\$* "
XY. Jh ždfYýUb]fghgb^yb]L! GHUbXUfX'nUdfc]nj cX

Aerospace series - Connector, single-way with triaxial interface, for transmission of digital data - Part 006: Crimp plug - Product standard

Luft- und Raumfahrt - Steckverbinder, triaxial für digitale Datenübertragung in einer Richtung - Teil 006: Freier Steckverbinder, crimpbar - Produktnorm

Série aérospatiale - Connecteur, monovoie, avec interface triaxiale, pour transmission de données numériques - Partie 006 : Fiche à sertir - Norme de produit

<https://standards.iteh.ai/catalog/standards/sist/1623368a-1101-4a05-8d89-0b60c0a5213b/sist-en-3716-006-2009>

Ta slovenski standard je istoveten z: EN 3716-006:2006

ICS:

49.060 Š^cp \ æš Ą^• [|b \ æ Aerospace electric
^|\ dā } æ [] ! ^ { æš Ą ã c ^ { ã equipment and systems

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en,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3716-006

December 2006

ICS 49.060

English Version

**Aerospace series - Connector, single-way with triaxial interface,
for transmission of digital data - Part 006: Crimp plug - Product
standard**

Série aérospatiale - Connecteur, monovoie, avec interface
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Luft- und Raumfahrt - Steckverbinder, triaxial für digitale
Datenübertragung in einer Richtung - Teil 006: Freier
Steckverbinder, Crimpkontakt - Produktnorm

This European Standard was approved by CEN on 28 August 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 document (EN 3716-006:2006) 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 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

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 3716-006:2006 (E)**1 Scope**

This standard specifies the requirements and assembly instructions for crimp plugs, with braid terminaison, having either a male or female contact, used according to EN 3716-002 on cables conforming to EN 3375-003, EN 3375-004 or EN 3375-005.

This standard is intermateable with EN 3716-003 and EN 3716-005.

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 — Cable, electrical, for digital data transmissions — Part 003: Cable, bifilar, single-braid — Product standard.* ¹⁾

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

EN 3375-005, *Aerospace series — Cable, electrical, for digital 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.*

EN 3716-002, *Aerospace series — Connector, single-way with triaxial interface, for transmission of digital data — Part 002: Conditions of use and list of product standards.*

EN 3716-003, *Aerospace series — Connector, single-way with triaxial interface, for transmission of digital data — Part 003: Solder receptacle — Product standard.*

EN 3716-005, *Aerospace series — Connector, single-way with triaxial interface, for transmission of digital data — Part 005: Crimp receptacle — Product standard.*

MIL-DTL-22520, *Crimping tools, wire termination, general specification for.* ²⁾

3 Terms and definitions

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

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

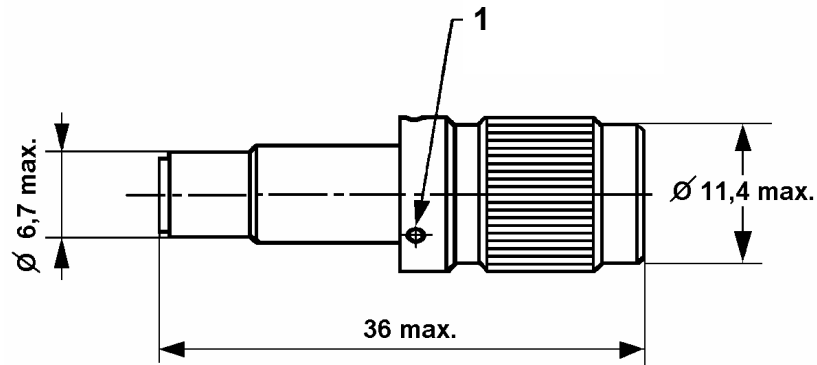
2) Published by: Department of Defense (DOD), The Pentagon, Washington D.C. 20301, USA.

4 Required characteristics

4.1 Dimensions and mass

4.1.1 Dimensions

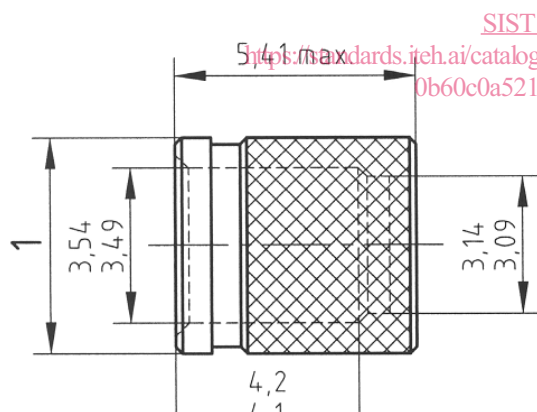
See Figure 1.



Key

1 3 holes \varnothing 1 min.

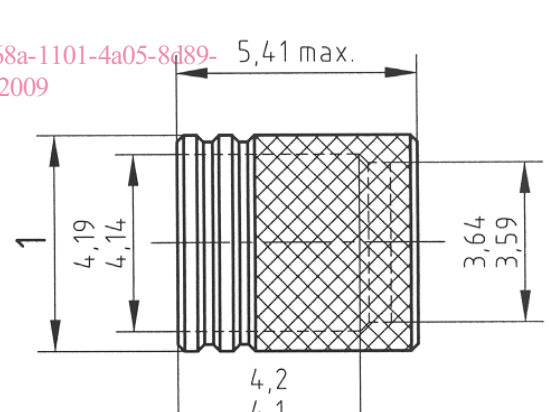
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Figure 1
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Key

1 $\begin{matrix} 4,91 \\ 4,86 \end{matrix}$ on knurling

Figure 2 — Ferrule for cable group A



Key

1 $\begin{matrix} 4,91 \\ 4,86 \end{matrix}$ on knurling

Figure 3 — Ferrule for cable group B

4.1.2 Mass

10 g max.

EN 3716-006:2006 (E)**4.2 Panel cut out**

Not applicable

4.3 Material and surface treatment

See EN 3716-001.

4.4 Main general characteristics

- Temperature class : – 65 °C to 150 °C
- Maximum current: 3 A
- Insulation resistance: 5 000 MΩ min.
- Voltage strength: 900 V r.m.s at sea level
- Contact resistance: 8 mΩ max.
- Coupling torque: 1,13 N.m max.
- Insertion force: 14 N max.
- Retention force of wired contact: 9 N min.
- Mating and unmating cycles: 500 cycles
- Salt spray: 500 h

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4.5 Plug and receptacle combination options

This plug mates with a receptacle conforming to ~~EN 3716-003~~ or ~~EN 3716-005~~ equipped with a contact of the opposite gender.

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X = type of contact

F = female contact

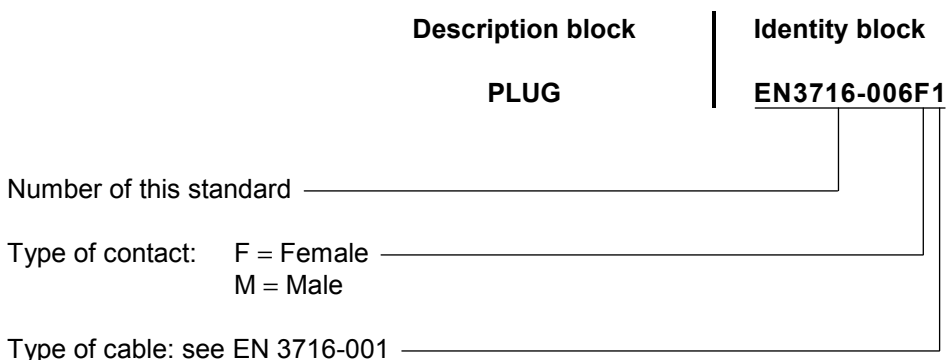
M = male contact

5 Technical specification

See EN 3716-001.

6 Designation

EXAMPLE



7 Marking

See Figure 1.

On the nut:

- manufacturer identification
- yy-ww (year-week)

8 Assembly instructions

8.1 Tooling

Conform to MIL-DTL-22520, see Table 1.

These selector numbers given in Table 1 shall be used for qualification of the contacts and in service, unless otherwise specified by the user.

Table 1

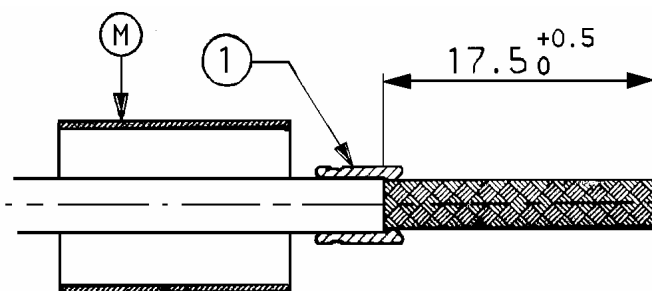
Contact	Crimping tool	Positioner	Selector setting/cavity
Central	M22520/2-01	M22520/2-37	5
Intermediate	M22520/2-01	EN4008-009	5
Outer	M22520/5-01	M22520/5-45	B

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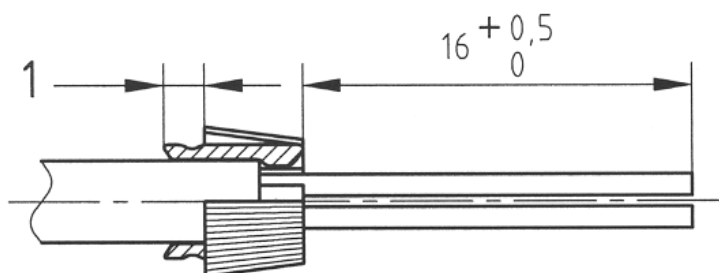
<https://standards.iteh.ai/catalog/standards/sist/1623368a-1101-4a05-8d89->

The hot air generator shall have a minimum output of 800 W and the temperature in the heating zone shall be 125 °C to 200 °C max.

8.2 Procedure



- A** Fit the supply sleeve on the cable. For sealing wiring see Instruction K. Insulation should be stripped back. Slide crimp ring ① over cable.



- B** Comb braid and fold back over crimp ring cut out fillers.