



SLOVENSKI STANDARD

SIST EN 3716-004:2015

01-februar-2015

Nadomešča:

SIST EN 3716-004:2009

Aeronavtika - Konektorji, enopolni, s triosnim vmesnikom, za digitalni prenos podatkov - 004. del: Spajkalni vtič in priključek - Standard za proizvod

Aerospace series - Connectors, single-way with triaxial interface for transmission of digital data - Part 004: Solder plug and terminator - Product standard

Luft- und Raumfahrt - Steckverbinder, einpolig, triaxial für digitale Datenübertragung - Teil 004: Freier Steckverbinder lötbar und Abschlusswiderstand - Produktnorm

Série aérospatiale - Connecteur, monovoie, avec interface triaxiale, pour transmission de données numériques - Partie 004: Fiche à souder et impédance de terminaison - Norme de produit

Ta slovenski standard je istoveten z: EN 3716-004:2014

ICS:

| | | |
|--------|--|--|
| 49.060 | Letalska in vesoljska električna oprema in sistemi | Aerospace electric equipment and systems |
|--------|--|--|

SIST EN 3716-004:2015

en,fr,de

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EUROPEAN STANDARD

EN 3716-004

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2014

ICS 49.060; 49.090

Supersedes EN 3716-004:2006

English Version

Aerospace series - Connectors, single-way with triaxial interface for transmission of digital data - Part 004: Solder plug and terminator - Product standard

Série aéronautique - Connecteur, monovoie, avec interface triaxiale, pour transmission de données numériques - Partie 004: Fiche à souder et impédance de terminaison - Norme de produit

Luft- und Raumfahrt - Steckverbinder, einpolig, triaxial für digitale Datenübertragung - Teil 004: Freier Steckverbinder lösbar und Abschlusswiderstand - Produktnorm

This European Standard was approved by CEN on 22 November 2014.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

This document (EN 3716-004:2014) 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 2015, and conflicting national standards shall be withdrawn at the latest by June 2015.

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.

This document supersedes EN 3716-004:2006.

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

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EN 3716-004:2014 (E)**1 Scope**

This European Standard specifies the requirements and assembly instructions for solder plugs, with or without braid connection, equipped with 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, as well as terminators.

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 3375-003, *Aerospace series — Cables, electrical, for digital data transmissions — Part 003: Single braid — 77 Ohms — Type KG — Product standard*

EN 3375-004, *Aerospace series — Cable, electrical, for digital data transmission — Part 004: Double braid — 77 Ohms — Type WJ — Product standard*

EN 3375-005, *Aerospace series — Cable, electrical, for digital data transmission — Part 005: Double braid + metallic layer — 77 Ohms — Type WV — Product standard*

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*

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3 Terms and definitions

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

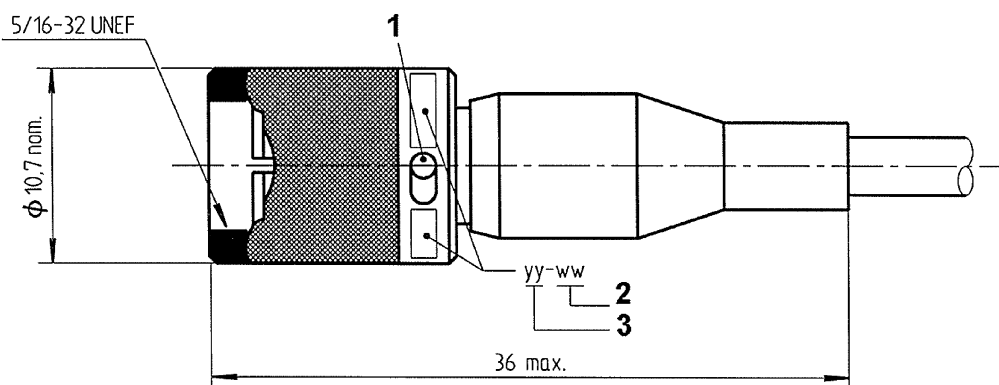
4 Required characteristics

4.1 Dimensions and mass

4.1.1 Dimensions

4.1.1.1 Connector

See Figure 1.



Key

- 1 Safety wire hole $\varnothing 1,2$
- 2 Week
- 3 2 last figures of year

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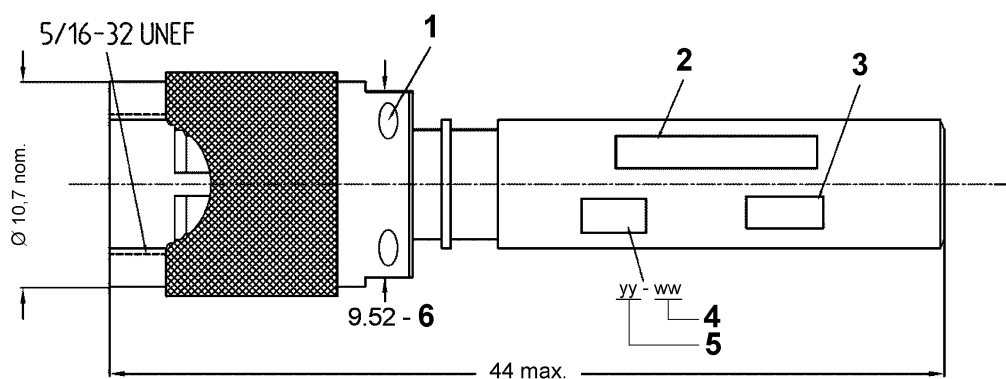
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Figure 1

<https://standards.iteh.ai/catalog/standards/sist/d0d86dad-7a4f-4437-b145-1974f3da4261/sist-en-3716-004-2015>

4.1.1.2 Terminator

See Figure 2 and Figure 3.

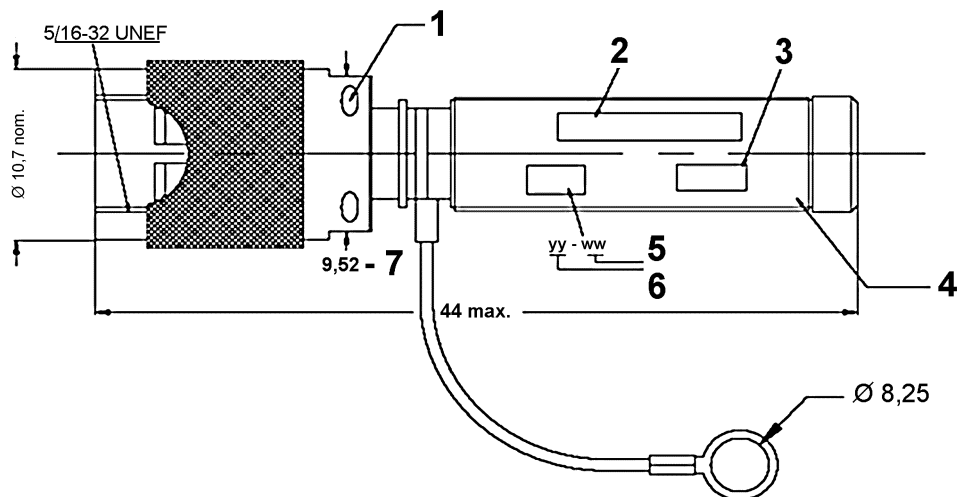


Key

- | | |
|---|-------------------------|
| 1 Safety wire hole $\varnothing 1,2$ | 4 Week |
| 2 Marking | 5 2 last digits of year |
| 3 Resistance value: 50 ohms 77 ohms 3k ohms | 6 3/8 wrench opening |

Figure 2

EN 3716-004:2014 (E)

**Key**

- | | |
|---|-------------------------|
| 1 Safety wire hole $\varnothing 1,2$ | 4 Clear label protector |
| 2 Marking | 5 Week |
| 3 Resistance value: 50 ohms 77 ohms 3k ohms | 6 2 last digits of year |
| | 7 3/8 wrench opening |

Figure 3

4.1.2 Mass

Mass of connector – 10 g max.

Mass of terminator – 19 g max.

4.2 Material and surface treatment

See EN 3716-001.

Lanyard material: stainless steel cable with Nylon cover compatible with the temperature requirement of the connector.

Lug material: tin plated copper.

Lanyard length: 76 mm between eyelet hole centrelines.

4.3 Main general characteristics

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

4.4 Plug and receptacle combination options

This plug mates with a receptacle conforming to EN 3716-003 equipped with a contact of the opposite type.

X = type of contact

F = female contact

M = male contact

5 Technical specification

See EN 3716-001.

6 Designation

6.1 Connector (see Figure 1)

EXAMPLE

| Description block | Identity block |
|---|---------------------|
| PLUG | EN3716-004F1 |
| Number of this standard | |
| Type of contact: F : female M : male | |
| Type of cable: see EN 3716-001, Table 5 | |

6.2 Terminator (see Figure 2 and Figure 3)

EXAMPLE

| Description block | Identity block |
|---|-----------------------|
| TERMINATOR | EN3716-004FXXX |
| Number of this standard | |
| Type of contact: F : female M : male | |
| Resistance value $\pm 2\%$ 50 Ω : 50 77 Ω : 77 3 000 Ω : 3k | |
| Lanyard option: without Lanyard: blank with Lanyard: C | |