
Aeronavtika - Konektorji, električni, okrogli, priključeni z navojnim obročkom, odporni ali neodporni proti ognju, s stalno delovno temperaturo med –65 °C in 175 °C, stalno 200 °C, najvišjo 260 °C - 016. del: Vtič z integriranim priključkom - Standard za izdelek

Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures - 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak - Part 016: Plug with integrated accessory - Product standard

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Luft- und Raumfahrt - Rundsteckverbinder mit Schraubkupplung, feuerbeständig oder nicht feuerbeständig, Betriebstemperaturen - 65 °C bis 175 °C konstant, 200 °C konstant, 260 °C Spitze - Teil 016: Freier Steckverbinder, integriertes Endgehäuse - Produktnorm

Série aéronautique - Connecteurs électriques circulaires à accouplement par bague fileté, résistant au feu ou non, températures d'utilisation - 65 °C à 175 °C continu, 200 °C continu, 260 °C en pointe - Partie 016: Fiche avec accessoire intégré - Norme de produit

Ta slovenski standard je istoveten z: EN 2997-016:2010

ICS:

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

SIST EN 2997-016:2012

en,de

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 2997-016:2012

<https://standards.iteh.ai/catalog/standards/sist/570de736-85f0-416f-af2a-c4acbd82b98a/sist-en-2997-016-2012>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2997-016

December 2010

ICS 49.060

English Version

Aerospace series - Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures -65 °C to 175°C continuous, 200°C continuous, 260°C peak - Part 016: Plug with integrated accessory - Product standard

Série aérospatiale - Connecteurs électriques circulaires à accouplement par bague fileté, résistant au feu ou non, températures d'utilisation -65°C à 175°C continu, 200°C continu, 260°C en pointe - Partie 016: Fiche avec accessoire intégré - Norme de produit

Luft- und Raumfahrt - Elektrischer Rundsteckverbinder mit Schraubkupplung, feuerbeständig oder nicht feuerbeständig, Betriebstemperaturen -65 °C bis 175 °C konstant, 200 °C konstant, 260 °C Spitze - Teil 016: Freier Steckverbinder mit integriertem Endgehäuse - Produktnorm

This European Standard was approved by CEN on 4 September 2010

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Required characteristics.....	5
4.1 Dimensions and mass.....	5
4.2 Material, surface treatment.....	6
4.3 Main general characteristics	6
4.4 Possible combinations of plugs and receptacles	6
5 Designation	6
6 Marking	8
7 Technical specification	8

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 2997-016:2012](https://standards.iteh.ai/catalog/standards/sist/570de736-85f0-416f-af2a-c4acbd82b98a/sist-en-2997-016-2012)

<https://standards.iteh.ai/catalog/standards/sist/570de736-85f0-416f-af2a-c4acbd82b98a/sist-en-2997-016-2012>

Foreword

This document (EN 2997-016:2010) 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 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

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, Bulgaria, Croatia, 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.

ITEH STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 2997-016:2012](https://standards.iteh.ai/catalog/standards/sist/570de736-85f0-416f-af2a-c4acbd82b98a/sist-en-2997-016-2012)

<https://standards.iteh.ai/catalog/standards/sist/570de736-85f0-416f-af2a-c4acbd82b98a/sist-en-2997-016-2012>

EN 2997-016:2010 (E)**1 Scope**

This European Standard specifies the characteristics of plugs with integrated accessory in the family of circular electrical connectors coupled by threaded ring.

It applies to the class defined in Table 2.

For contacts, filler plugs associated with this plug, see EN 2997-002. For receptacles, see EN 2997-003 to EN 2997-007, EN 2997-014, EN 2997-015 and for protective covers, see EN 2997-010.

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 2997-001, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 001: Technical specification*

EN 2997-002, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 002: Specification of performance and contact arrangements*

EN 2997-003, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 003: Square flange receptacle — Product standard*

EN 2997-004, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 004: Jam-nut mounted receptacle — Product standard*

EN 2997-005, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 005: Hermetic square flange receptacle — Product standard*

EN 2997-006, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 006: Hermetic jam-nut mounted receptacle — Product standard*

EN 2997-007, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 007: Hermetic receptacle with round flange attached by welding or brazing — Product standard*

EN 2997-010, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 010: Protective cover for plug — Product standard*

EN 2997-014, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 014: Square flange receptacle with integrated accessory — Product standard*

EN 2997-015, *Aerospace series — Connectors, electrical, circular, coupled by threaded ring, fire-resistant or non fire-resistant, operating temperatures – 65 °C to 175 °C continuous, 200 °C continuous, 260 °C peak — Part 015: Jam-nut mounted receptacle with integrated accessory — Product standard*

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

3 Terms and definitions

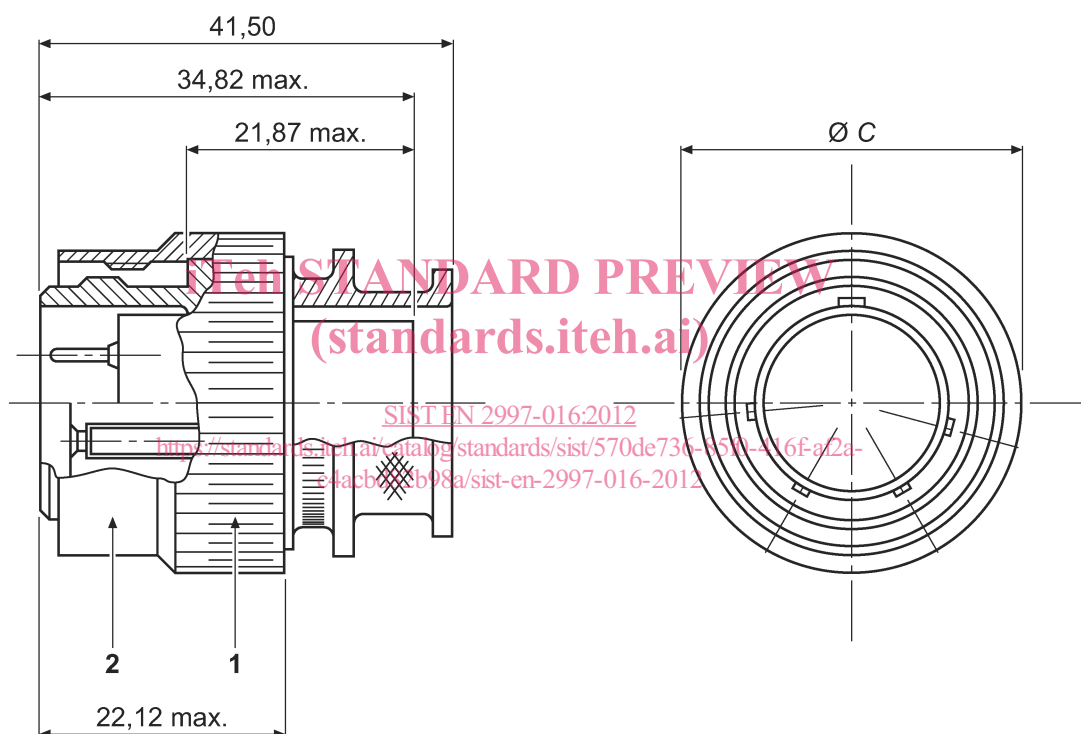
For the purposes of this document, the terms and definitions given in EN 2997-001 apply.

4 Required characteristics

4.1 Dimensions and mass

See Figure 1 and Table 1.

Dimensions are in millimetres; they apply after surface treatment.



Key

- 1 See EN 2997-001.
- 2 Identity marking and blue rear release indicator band here

Figure 1

EN 2997-016:2010 (E)

Table 1

Housing size	$\varnothing C$	Mass ^a g max.	
		Stainless steel	Aluminium alloy
08	21,30	45	18
10	24,90	62	26
12	29,60	71	30
14	31,24	85	46
16	34,42	100	48
18	37,34	113	52
20	41,91	125	56
22	44,07	141	76
24	47,24	157	79
28	55,24	192	124
^a Mass without contact.			

4.2 Material, surface treatment

See Table 2.

4.3 Main general characteristics

See EN 2997-002.

4.4 Possible combinations of plugs and receptacles

See EN 2997-002.

5 Designation

EXAMPLE

Description block	Identity block
ELECTRICAL CONNECTOR, PLUG	EN2997SEC0898F8
Number of the basic standard _____	
Class (see Table 2) _____	
Plug with integrated accessory (see EN 2997-002) _____	
Housing size and contact arrangement (see EN 2997-002) _____	
Type of contact (see Table 3) _____	
Polarization (see EN 2997-002) _____	

NOTE If necessary, the code I9005 shall be placed between the description block and the identity block.

Table 2

Class	Model description
W	Sealed plug with housing (shell) in olive-green cadmium-plated aluminium alloy, conducting finish, 500 h resistance to salt mist, crimp contacts, maximum operating temperature 175 °C continuous
WS	Sealed plug with housing (shell) in olive-green cadmium-plated aluminium alloy, conducting finish, 500 h resistance to salt mist, crimp contacts, with ground-spring-system, maximum operating temperature 175 °C continuous
K	Sealed plug with housing (shell) in passivated stainless steel, 500 h resistance to salt mist, crimp contacts, fire-resistant, maximum operating temperature 200 °C continuous
R	Sealed plug with housing (shell) in nickel-plated aluminium alloy, 48 h resistance to salt mist, crimp contacts, maximum operating temperature 200 °C continuous
RS	Sealed plug with housing (shell) in nickel-plated aluminium alloy, 48 h resistance to salt mist, crimp contacts, with grounding-spring-system, maximum operating temperature 200 °C continuous
S	Sealed plug with housing (shell) in passivated stainless steel, 500 h resistance to salt mist, crimp contacts, fire-resistant, with grounding-spring-system, maximum operating temperature 200 °C continuous
KE	Sealed plug with housing (shell) in passivated stainless steel, 500 h resistance to salt mist, crimp contacts, fire-resistant, maximum operating temperature 260 °C peak
KV	Sealed plug with housing (shell) in passivated stainless steel, 500 h resistance to salt mist, crimp contacts, fire-resistant, high vibrations, maximum operating temperature 260 °C peak
SV	Sealed plug with housing (shell) in passivated stainless steel, 500 h resistance to salt mist, crimp contacts, fire-resistant, high vibrations, with grounding-spring-system, maximum operating temperature 260 °C peak
SE	Sealed plug with housing (shell) in passivated stainless steel, 500 h resistance to salt mist, crimp contacts, fire-resistant, with grounding-spring-system, maximum operating temperature 260 °C peak

Table 3

Contacts	Delivered without contact	Delivered with contacts with standard barrels ^a EN 3155-XXXX2222 EN 3155-XXXX2020 EN 3155-XXXX1616 EN 3155-XXXX1212	Delivered with specific contacts size 20 with special barrel ^a EN 3155-XXXX2018 ^b
Male	A	M	C
Female	B	F	D
^a See EN 3155-002.			
^b Only affects size 20 contact arrangements.			