
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 - 015. del: Pritrditev z zaklepom matice z vključenim priborom - 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 015: Jam-nut mounted receptacle with integrated accessory - Product standard

Luft- und Raumfahrt - Elektrische Rundsteckverbinder mit Schraubkupplung, feuerbeständig oder nicht feuerbeständig, Betriebstemperaturen - 65 °C bis 175 °C konstant, 200 °C konstant, 260 °C Spitze - Teil 015: Fester Steckverbinder mit Mutterbefestigung, integriertes - Produktnorm

Série aérospatiale - Connecteurs électriques circulaires à accouplement par bague filetée, résistant au feu ou non, températures d'utilisation - 65 °C à 175 °C continu, 200 °C continu, 260 °C en pointe - Partie 015 : Embase, à fixation par écrou, avec accessoire intégré - Norme de produit

Ta slovenski standard je istoveten z: EN 2997-015:2011

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems
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SIST EN 2997-015:2011

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2997-015

May 2011

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 015: Jam-nut mounted receptacle with integrated accessory - Product standard

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 015 : Embase à fixation par écrou avec accessoire intégré - Norme de produit

Luft- und Raumfahrt - Elektrische Rundsteckverbinder mit Schraubkupplung, feuerbeständig oder nicht feuerbeständig, Betriebstemperaturen - 65 °C bis 175 °C konstant, 200 °C konstant, 260 °C Spitze - Teil 015: Fester Steckverbinder mit Mutterbefestigung und integriertem Endgehäuse - Produktnorm

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This European Standard was approved by CEN on 3 March 2011.

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.



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Foreword

This document (EN 2997-015:2011) 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 November 2011, and conflicting national standards shall be withdrawn at the latest by November 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.

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EN 2997-015:2011 (E)

1 Scope

This European Standard specifies the characteristics of jam-nut mounted receptacles with integrated accessory in the family of circular electrical connectors coupled by threaded ring.

It applies to the class defined in Table 4.

For contacts, filler plugs associated with this receptacle see EN 2997-002. For plugs, see EN 2997-008 and EN 2997-016, for protective covers, see EN 2997-009, for spare jam-nuts, see EN 2997-012 and for o-rings, see EN 2997-013.

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 2997-001:2006, *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 2997-008, *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 008: Plug — Product standard*

EN 2997-009, *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 009: Protective cover for receptacle — Product standard*

EN 2997-012, *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 012: Jam-nut for jam-nut receptacles — Product standard*

EN 2997-013, *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 013: O-ring seal for jam-nut receptacles — Product standard*

EN 2997-016, *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*

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

ISO 263, *ISO inch screw threads — General plan and selection for screws, bolts and nuts — Diameter range 0,06 to 6 in*

3 Terms and definitions

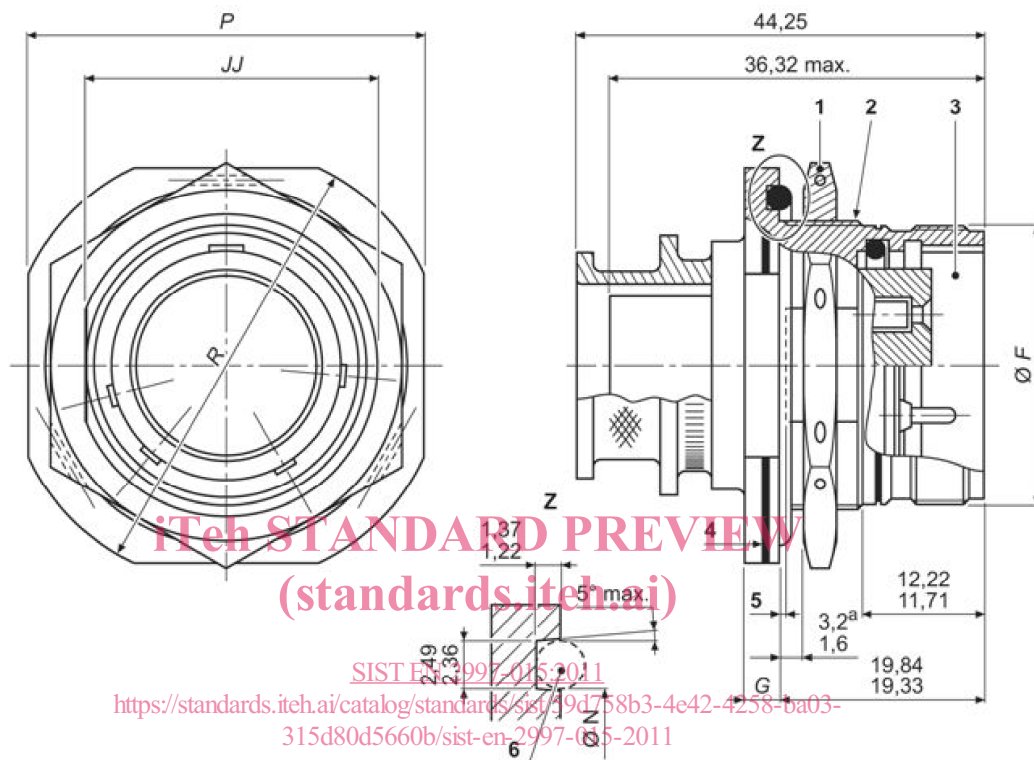
For the purposes of this document, the terms and definitions given in EN 2997-001:2006 apply.

4 Required characteristics

4.1 General

See Figure 1 and Table 1.

Dimensions are in millimetres. They apply after surface treatment.



Key

- 1 See EN 2997-012.
2 Thread K
3 See EN 2997-001.
4 Blue colour band minimum width 0,64
5 End of flat 0,13 max.
6 See EN 2997-013.

NOTE Cable entry internal and external dimensions can be found in EN 2997-001.

Figure 1

EN 2997-015:2011 (E)

Table 1

Housing size	<i>F</i> max.	<i>G</i>	<i>K</i> Thread class 2A ^a	<i>N</i>	<i>P</i>	<i>R</i>	<i>JJ</i>	Mass ^b g max.	
								Stainless steel	Aluminium alloy
08	14,27	3,48 2,46	0,6250-25UN	17,02 16,92	24,89 24,10	27,38 26,59	15,14 14,99	—	—
10	17,67	3,48 2,46	0,7500-20UNEF	20,22 20,12	28,04 27,25	30,28 29,49	18,31 18,16	—	—
12	22,22	3,48 2,46	0,9375-20UNEF	24,99 24,89	32,79 32,00	35,05 34,26	23,06 22,91	—	—
14	23,77	3,48 2,46	1,0000-20UNEF	26,57 26,47	35,33 34,54	38,51 37,72	24,66 24,51	—	—
16	26,97	3,48 2,46	1,1250-18UNEF	29,74 29,64	38,51 37,72	41,68 40,89	27,84 27,69	—	—
18	30,15	3,48 2,46	1,2500-18UNEF	32,92 32,82	41,68 40,89	44,86 44,07	30,99 30,84	—	—
20	33,32	3,48 2,46	1,3750-18UNEF	37,64 37,54	44,86 44,07	49,63 48,84	34,16 34,01	—	—
22	36,49	3,76 3,25	1,5000-18UNEF	40,87 40,77	49,63 48,84	52,78 51,99	37,34 37,19	—	—
24	39,67	3,76 3,25	1,6250-18UNEF	43,99 43,89	52,81 52,02	55,42 54,66	40,51 40,36	—	—
28	46,02	3,76 3,25	1,8750-16UNS	50,39 50,29	59,21 58,42	61,82 61,04	46,78 46,63	—	—
^a ISO 263. ^b Mass without accessory and without contact.									

4.2 Tightening torque of attachment nut

For recommended service use, torque settings to be in accordance with Table 2.

Table 2

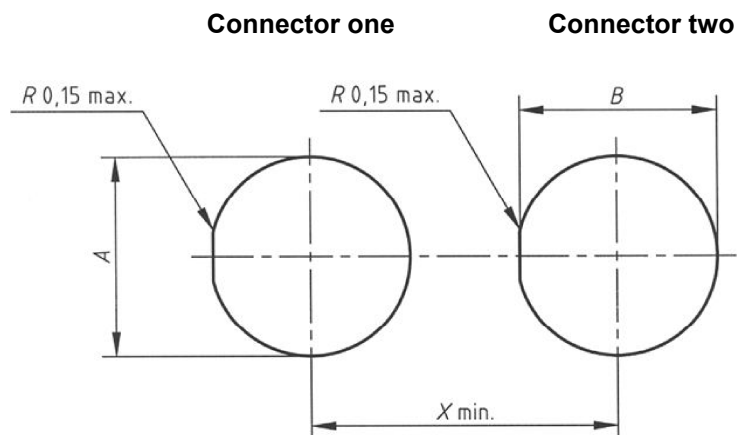
Housing size	Torque N.m $\pm$ 10 %
08	7
10	10
12	12
14	15
16	18
18	22
20	25
22	27
24	29
28	30

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4.3 Panel cut-out

See Figure 2 and Table 3.

Dimensions are in millimetres.



X min. value is calculated as follows: $D/2$ connector one + $D/2$ connector two (see Table 3 for value D).

Figure 2