

SLOVENSKI STANDARD
SIST EN 2997-007:2009

01-april-2009

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SIST EN 2997-7:2001

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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

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 007: Hermetischer fester Steckverbinder mit rundem Schweiß- oder Lötflansch - 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 007 : Embase hermétique à collerette ronde fixée par soudure ou brasure - Norme de produit

Ta slovenski standard je istoveten z: EN 2997-007:2006

ICS:

49.060 Š`æ\`æš`Á`^•[|b\`æ Aerospace electric
^|\`dã}æ]!\`{æš`Á`ã`c{ã equipment and systems

SIST EN 2997-007:2009 en,de

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EUROPEAN STANDARD

EN 2997-007

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2006

ICS 49.060

Supersedes EN 2997-7:1997

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 007: Hermetic receptacle with round flange attached by welding or brazing - Product standard

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- Norme de produit

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This European Standard was approved by CEN on 24 June 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.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 2997-007:2006) 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 April 2007, and conflicting national standards shall be withdrawn at the latest by April 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.

This document supersedes EN 2997-7:1997.

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 2997-007:2006 (E)**1 Scope**

This standard specifies the characteristics of hermetic receptacles with round flange attached by welding or brazing in the family of circular electrical connectors coupled by threaded ring.

It applies to the class defined in Table 3.

For plugs and protective covers, see EN 2997-008 and EN 2997-009 respectively.

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 2997-008, *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.*

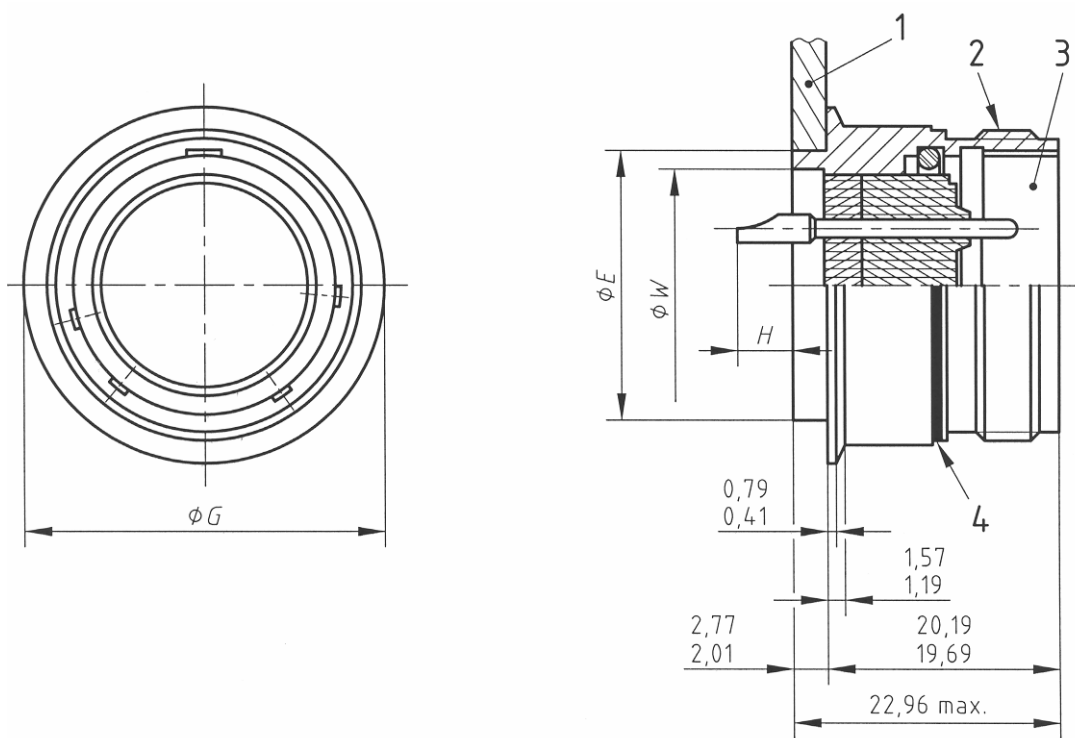
3 Terms and definitions

For the purposes of this standard, 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 Panel
- 2 Thread
- 3 See EN 2997-001.
- 4 Blue colour band minimum width 0,64

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Figure 1

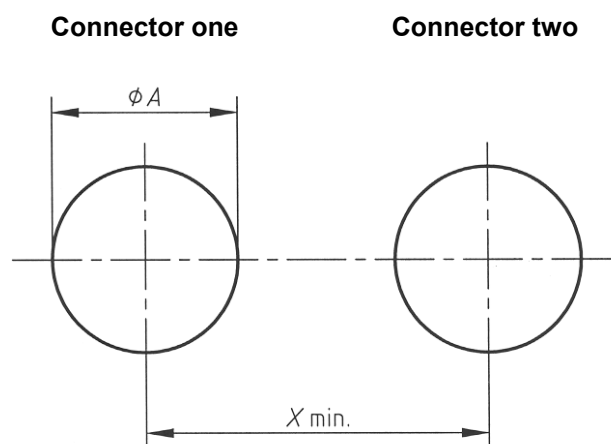
Table 1

Housing size	$\varnothing E$	$\varnothing G$	H		$\varnothing W$ min.	Mass g max.
			Size contact 20	Size contacts 16 and 12		
08	12,70 12,55	18,36 17,86	4,93 3,40	5,69 4,17	10,16	15
10	14,27 14,12	21,59 21,08			10,44	21
12	19,05 18,90	26,80 26,29			14,76	31
14	20,62 20,47	27,94 27,43			16,51	35
16	23,80 23,65	30,99 30,48			19,74	46
18	26,97 26,82	34,39 33,78			21,95	51
20	30,15 30,00	37,34 36,83			26,26	59
22	33,32 33,17	40,64 40,13			28,78	73
24	36,50 36,35	43,68 43,17			32,61	86
28	42,82 42,67	50,21 49,70			38,81	125

4.2 Panel cut-out

See Figure 2 and Table 2.

Dimensions are in millimetres.



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

Figure 2

Table 2

Housing size	$\varnothing A$ min.	D min.
08	12,96	31,70
10	14,53	34,90
12	19,30	39,60
14	20,88	41,25
16	24,05	44,45
18	27,23	47,35
20	30,40	51,90
22	33,58	54,10
24	36,75	57,25
28	43,08	65,25

4.3 Material, surface treatment

See Table 3.

4.4 Main general characteristics

See EN 2997-002.

4.5 Possible combinations of plugs and receptacles

See EN 2997-002.

5 Designation

EXAMPLE

Description block	Identity block
ELECTRICAL CONNECTOR, RECEPTACLE	EN2997Y11203MN
Number of the basic standard _____	
Class (see Table 3) _____	
Hermetic receptacle with round flange (see EN 2997-002) _____	
Housing size and contact arrangement (see EN 2997-002) _____	
Type of contact: M = male _____	
Polarization (see EN 2997-002) _____	

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