

SLOVENSKI STANDARD

SIST EN 3155-065:2009

01-januar-2009

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Aerospace series - Electrical contacts used in elements of connection - Part 065:
Contacts, electrical, male, type A, crimp, class S, size 8 - Product standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 065: Elektrische Stiftkontakte, Typ A, crimpbar, Klasse S, Größe 8 - Produktnorm
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Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie
065 : Contacts électriques, mâles, type A, à sertir, classe S, taille 8 - Norme de produit

Ta slovenski standard je istoveten z: **EN 3155-065:2006**

ICS:

49.060 Š`c`p` \`a`š` Á`^`[`|`b` \`æ Aerospace electric
^`|` \`d`ã` }`a`]`!`^`{` a`š` Á`ã` c`{` ã equipment and systems

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3155-065

July 2006

ICS 49.060

English Version

**Aerospace series - Electrical contacts used in elements of
connection - Part 065: Contacts, electrical, male, type A, crimp,
class S, size 8 Product standard**

Série aérospatiale - Contacts électriques utilisés dans les
organes de connexion - Partie 065 : Contacts électriques,
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Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung
in Verbindungselementen - Teil 065: Elektrische
Stiftkontakte, Typ A, crimpbar, Klasse S, Größe 8
Produktnorm

This European Standard was approved by CEN on 9 March 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
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Foreword

This European Standard (EN 3155-065:2006) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-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 AECMA, 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 January 2007, and conflicting national standards shall be withdrawn at the latest by January 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 3155-065:2006 (E)**Introduction**

This standard specifies the characteristics of male crimp contacts.

1 Scope

This standard specifies the required characteristics, tests and tooling applicable to male electrical contacts, type A, crimp, class S, size 8, used in elements of connection according to EN 3155-002.

It shall be used together with EN 3155-001.

The associated female contacts are defined in EN 3155-066.

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 2083, *Aerospace series – Copper or copper alloy conductors for electrical cables – Product standard*

EN 2591 (all parts), *Aerospace series – Element of electrical and optical connection – Test methods*

EN 3155-001, *Aerospace series – Electrical contacts used in elements of connection – Part 001: Technical specification*

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

EN 3155-066, *Aerospace series – Electrical contacts used in elements of connection – Part 066: Contacts, electrical, female, type A, crimp, class S, size 8 – Product standard*

EN 4530-004, *Aerospace series – Electrical contacts used in elements of connection – Part 004: Sealing sleeve – Product standard*

MIL-C-22520/23, *Crimping Tools, Terminal, Hand or Power Actuated, Wire Termination: Pneumatic Tool for Wire Barrel Sizes 0000 Through 8¹⁾*

MIL-DTL-22520G, *Crimping Tools, Wire Termination, General Specification for ...¹⁾*

MIL-I-81969B, *Installing and Removal Tools, Connector Electrical Contacts, Typy II, Class 2, Composition C¹⁾*

MIL-I-81969/14C, *Installing and Removal Tools, Connector Electrical Contact, Type III, Class 2, Composition B¹⁾*

3 Definitions

For the purposes of this standard, the definitions in EN 3155-001 apply.

¹⁾ Published by: Department of Defense (DOD), the Pentagon, Washington D.C. 20301 USA.

4 Required characteristics

4.1 Specific characteristics

Type A contacts are for general application and class S corresponds to an operating temperature range from -65 °C to 200 °C.

4.2 Dimensions and mass

See Figure 1 and Table 1.

Dimensions and tolerances are given in millimetres and apply after surface treatment.

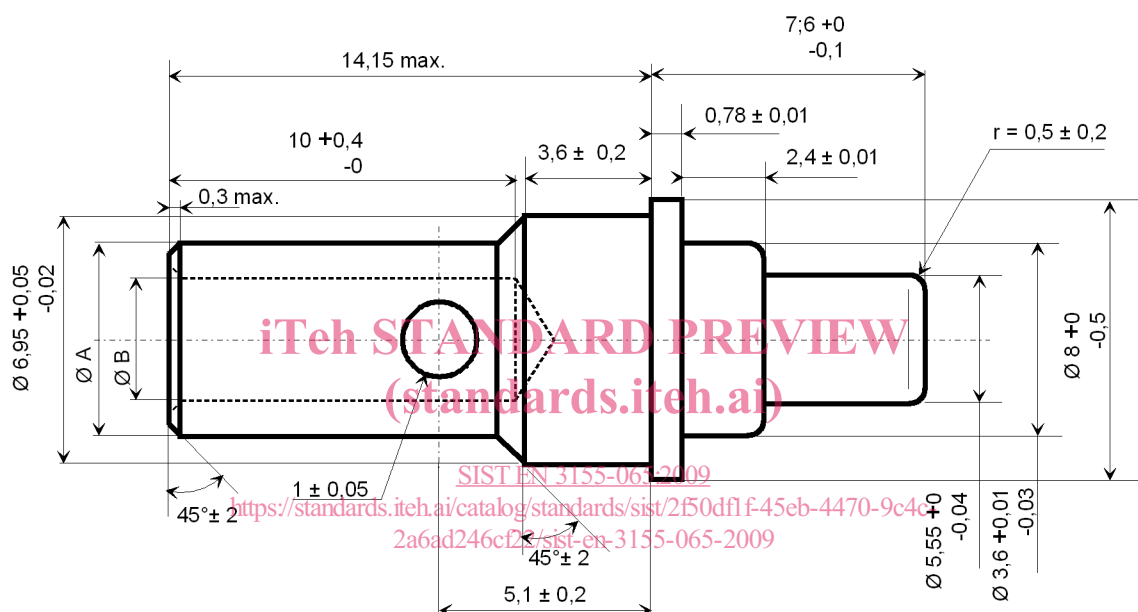


Figure 1

Table 1

Contact	Size		A	B	Mass g max.
	Barrel				
08	08		5,45	4,50	3,8
			5,60	4,65	
08	10		4,60	3,48	3,8
			4,68	3,56	

4.3 Marking by colour code

Not applicable.

4.4 Material, surface treatment

Body material: copper alloy.

Surface treatment: gold on appropriate undercoat.

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4.5 Permissible cables

See Table 2.

Table 2

Size		Size of conductors			Rated test current A
Contact	Barrel	AECMA code	Section mm ²	AWG ^a	
08	08	090	8,98	8	46
08	10	051 or 050	5,00	10	33

^a AWG = Closest American Wire Gauge.

4.6 Tooling

4.6.1 Crimping tools

Conform to MIL-DTL-22520, see Table 3.

The qualification selector number used for crimping copper or copper alloy conductors in cables EN 2083 are indicated in Table 3.

It is the responsibility of the user if the parameters in Table 3 are changed for service use.

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Table 3

<https://standards.iteh.ai/catalog/standards/sist/2f50df1f-45eb-4470-9c4c-2a6ad246cf22/sist-en-3155-065-2009>

Contact		Cable size		Tools M22520/23-01	
Contact size	Barrel size	AECMA code	AWG ^a	Die set	Die set number
08	08	090	8	M22520/23-02	3
08	10	051 or 050	10	M22520/23-02	5

^a AWG = Closest American Wire Gauge.

4.6.2 Insertion/Extraction tools

Conform to MIL-I-81969.

See Table 4.

Table 4

Size		Insertion tools	Extraction tools	
Contact	Barrel		Wired contact	Unwired contact
08	08	M81969/14-06	M81969/14-06	Not applicable
08	10	M81969/14-06	M81969/14-06	Not applicable

4.7 Cable stripping

See Table 5.

Table 5

Size		Stripped length of cable	
Contact	Barrel	mm	
		min.	max.
08	08	9,7	10,7
08	10	9,7	10,7

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4.8 Tests

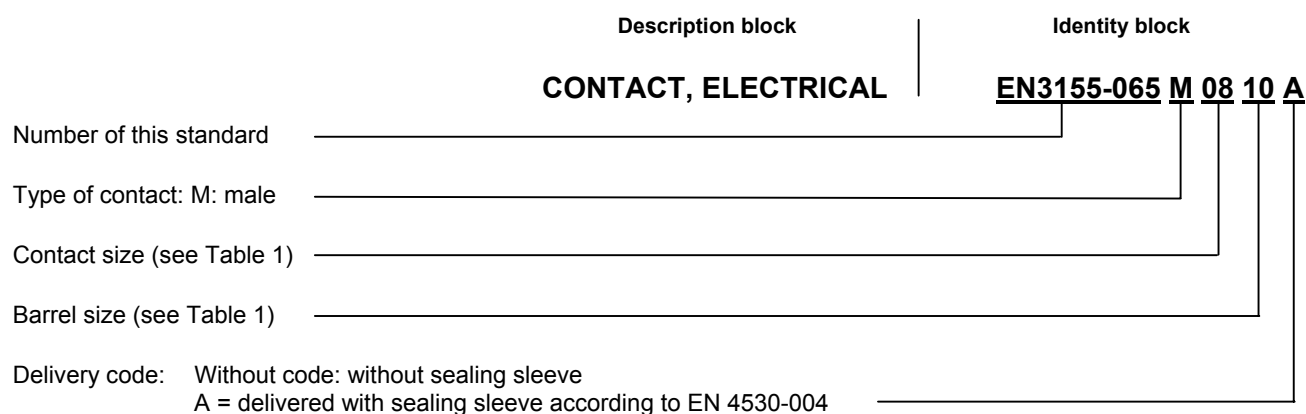
See Table 6.

4.9 Gauges

Not applicable.

5 Designation

EXAMPLE



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