

SLOVENSKI STANDARD

SIST EN 3155-066:2009

01-januar-2009

Aeronavtika - Električni kontakti za uporabo v veznih elementih - 066. del:
Kontakti, električni, ženski, tip A, nagubani, razred S, velikost 8 - Standard za
proizvod

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

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 066: Elektrische Buchsenkontakte, Typ A, crimpbar, Klasse S, Größe 8 -
Produktnorm

Série aéronautique - Contacts électriques utilisés dans les organes de connexion - Partie
066 : Contacts électriques, femelles, type A, à sertir, classe S, taille 8 - Norme de produit

Ta slovenski standard je istoveten z: EN 3155-066:2006

ICS:

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

SIST EN 3155-066:2009

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 3155-066:2009

<https://standards.iteh.ai/catalog/standards/sist/95a75f27-be6c-4007-a7e2-bc423153830c/sist-en-3155-066-2009>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3155-066

July 2006

ICS 49.060

English Version

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

Série aérospatiale - Contacts électriques utilisés dans les
organes de connexion - Partie 066 : Contacts électriques,
femelles, type A, à sertir, classe S, taille 8 - Norme de
produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung
in Verbindungselementen - Teil 066: Elektrische
Buchsenkontakte, 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
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

Contents

	Page
Foreword	3
Introduction	4
1 Scope	4
2 Normative references	4
3 Definitions	5
4 Required characteristics	5
4.1 Specific characteristics	5
4.2 Dimensions and mass	5
4.3 Marking by colour code	6
4.4 Material, surface treatment	6
4.5 Permissible cables	6
4.6 Tooling	6
4.7 Cable stripping	7
4.8 Tests	7
4.9 Gauges	7
5 Designation	8
6 Marking	10
7 Technical specification	10

<https://standards.iteh.ai/catalog/standards/sist/95a75f27-be6c-4007-a7e2-bc423153830c/sist-en-3155-066-2009>

Foreword

This European Standard (EN 3155-066:2006) has been prepared by the AeroSpace and Defense 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 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.

ITh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 3155-066:2009

<https://standards.iteh.ai/catalog/standards/sist/95a75f27-be6c-4007-a7e2-bc423153830c/sist-en-3155-066-2009>

EN 3155-066:2006 (E)**Introduction**

This standard specifies the characteristics of female crimp contacts.

1 Scope

This standard specifies the required characteristics, tests and tooling applicable to female 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 male contacts are defined in EN 3155-065.

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 specification¹⁾*

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

EN 3155-065, *Aerospace series – Electrical contacts used in elements of connection – Part 065: Contacts, electrical, male, 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 8²⁾*

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

MIL-I-81969B, *Installing and Removal Tools, Connector Electrical Contacts, Type II, Class 2, Composition C*

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

1) Published at ASD Prestandard at the date of publication of this standard.

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

3 Definitions

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

4 Required characteristics

4.1 Specific characteristics

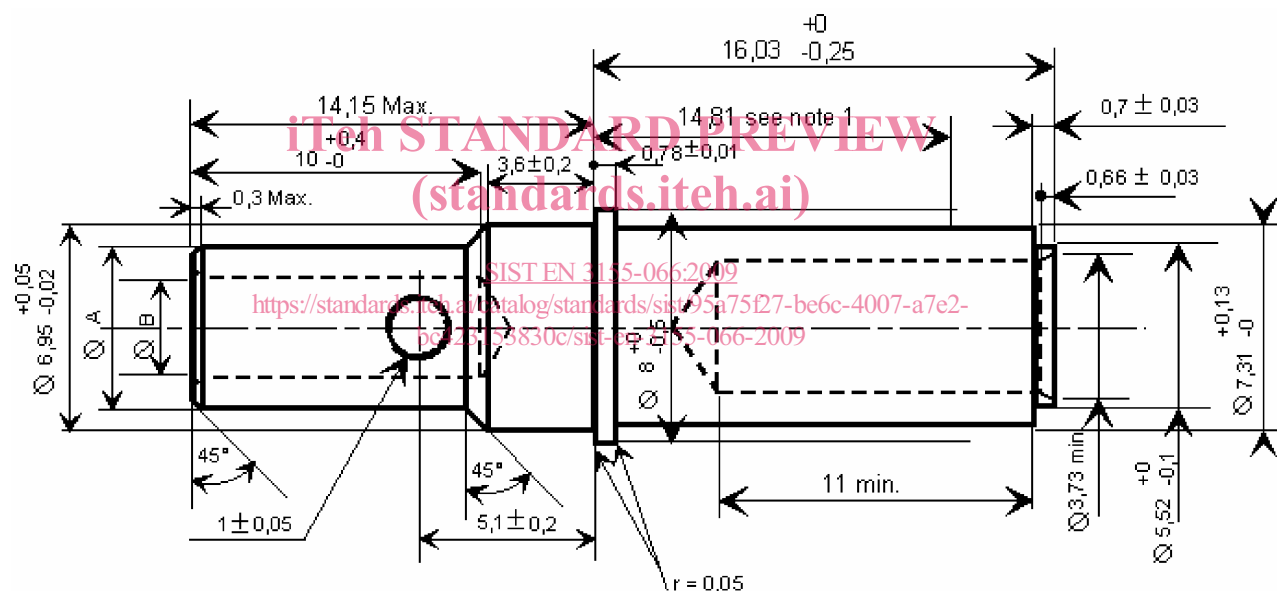
Type A contacts are for general application and class S corresponds to an operating temperature range from -65 °C to 200 °C.

4.2 Dimensions and mass

See Figure 1 and Table 1.

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

Dimensions in millimetres



NOTE Point of which a square ended gauge pin of the same diameter as the mating contact first engages the female contact spring member.

Figure 1

EN 3155-066:2006 (E)

Table 1

Contact	Size		A	B	Mass g max.
	Barrel				
08	08	5,45	4,50	5,2	
		5,60	4,65		
08	10	4,60	3,48	5,2	
		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.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

4.5 Permissible cables

See Table 2.

[SIST EN 3155-066:2009
https://standards.iteh.ai/catalog/standards/sist/95a75f27-be6c-4007-a7e2-bc423153830c/sist-en-3155-066-2009](https://standards.iteh.ai/catalog/standards/sist/95a75f27-be6c-4007-a7e2-bc423153830c/sist-en-3155-066-2009)

Table 2

Contact	Size		Size of conductors			Rated test current A
	Barrel		AECMA code	Section mm ²	AWG ^a	
08	08		080	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.

Table 3

Contact		Cable size		Tools M22520/23-01	
Contact size	Barrel size	AECMA code	AWG ^a	Die set	Die set number
08	08	080	8	M22520/23-02	4
08	10	051 or 050	10	M22520/23-02	3
^a AWG = Closest American Wire Gauge.					

4.6.2 Insertion/Extraction tools

Conform to MIL-I-81969.

See Table 4.

4.7 Cable stripping

See Table 5.

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

Table 5

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

4.8 Tests

See Table 6.

4.9 Gauges

See EN 3155-001.